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ABSTRACT

A guide to postsecondary opportunities in Ontario (Canada) is presented to help students choose a course of study after completing secondary school. Information is presented on student costs and student financial aid and the Colleges of Applied Arts and Technology. Apprenticeship programs, diploma programs, and certificate programs are identified for each college. An index of programs is included. Profiles of each college provide enrollment data, program descriptions, and information on alternative learning opportunities. Additionally, an overview of apprenticeship programs and descriptions of specific trades are presented. General information on Ontario universities, a chart of study programs available at Ontario universities, and profiles of each institution are provided. The profiles include information on admission requirements, degrees offered, tuition and fees, financial assistance, and enrollments. Profiles are also provided on other postsecondary education institutions (e.g., chiropractic colleges, agricultural technology colleges, hospital programs, business institutes, and art colleges). Correspondence study programs, facilities for disabled students, native studies, private vocational schools, and study opportunities for senior citizens are covered. (SW)

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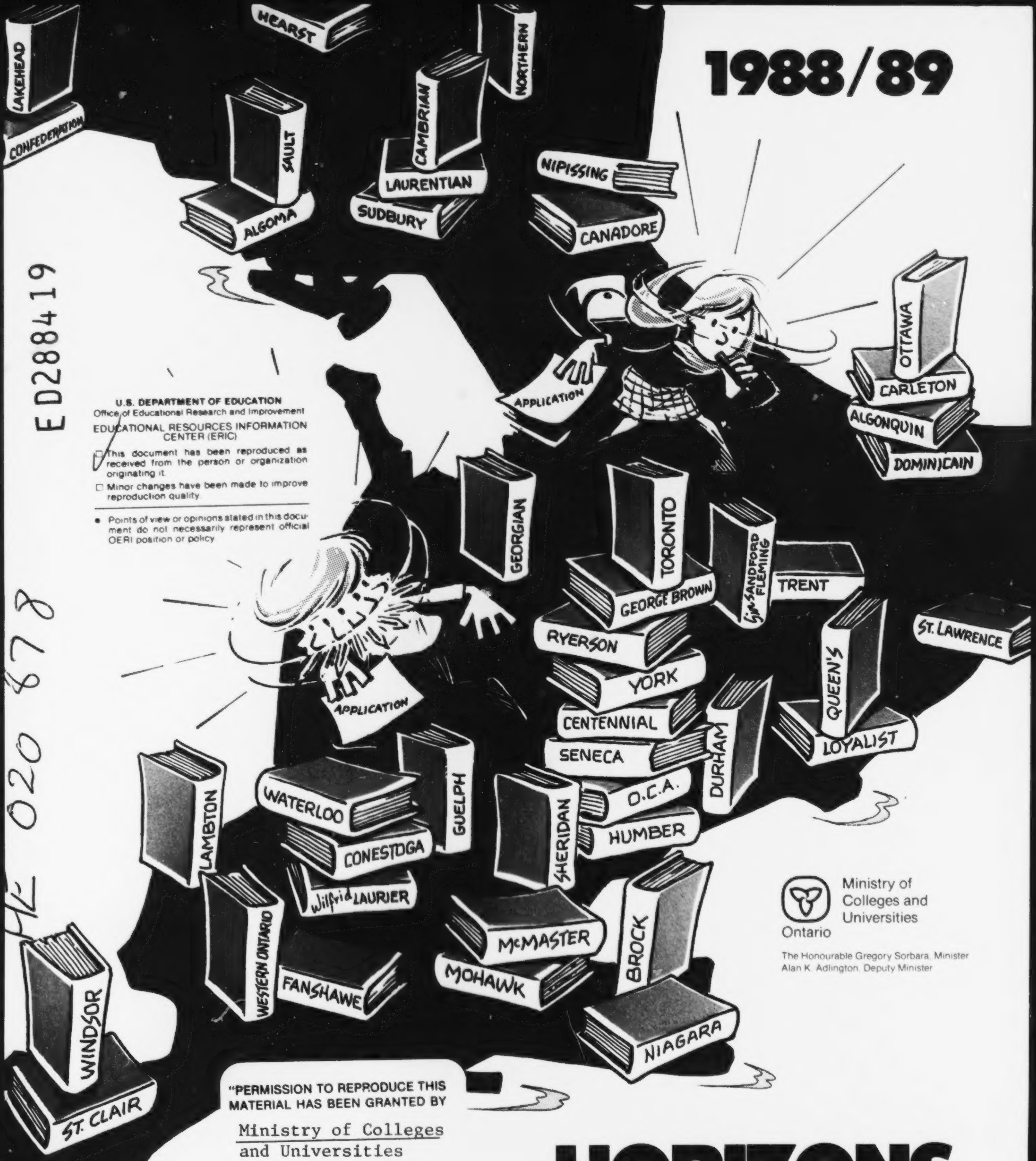
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Ministry of
Colleges and
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Ontario

The Honourable Gregory Sorbara, Minister
Alan K. Adlington, Deputy Minister

# HORIZONS

## A GUIDE TO POSTSECONDARY EDUCATION IN ONTARIO

## Horizons 1988-89

As Minister of Colleges and Universities, I am very pleased to present the latest edition of *Horizons*. This useful publication, prepared by my ministry, is a guide for students who have completed secondary school.

*Horizons* describes the several options available to you as you begin the next phase of your educational career. You will find a brief summary of programs offered by our colleges of applied arts and technology and our universities, as well as an outline of other ways to continue your education.

I am proud that Ontario's educational institutions provide such a rich selection of programs and subjects. In these times of accelerating change, it is vital that today's students have access to the widest range of educational options.

By presenting these options, *Horizons* helps you tailor postsecondary education to your needs. This publication is a useful resource whether you are interested in a university degree, a college diploma, refresher courses, part-time studies, on-the-job training, or correspondence courses.

Education is the pathway to understanding, and as Minister of Colleges and Universities I am committed to maintaining and enhancing the standards of excellence achieved by students and educators alike.

If you lack the resources to continue your education, the Government of Ontario can help. In 1986-87, the Ontario Student Assistance Program helped some 105 000 students.

*Horizons* details the grant, loan, and bursary plans available to students who want to further their education. Such assistance ensures that Ontario's students will continue to rank with the best.

Access to higher education is one of the priorities of the Ministry of Colleges and Universities. The more knowledgeable our young people become now, the better our society will be in the future.

I urge you to examine very carefully the options presented in *Horizons*, and I wish you the best of luck!

*The Honourable Gregory Sorbara*
*Minister of Colleges and Universities*

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**Note:**
*With reference to admission requirements for postsecondary programs:*

OSSD* = Ontario Secondary School Diploma (30 credits subject to the conditions specified in Section 4.10 of *Ontario Schools, Intermediate and Senior Divisions (Grades 7-12/OACs): Program and Diploma Requirements, 1984*.

OSSGD† = Ontario Secondary School Graduation Diploma (completion of 27 credits meeting Ministry of Education requirements)

OSSHGD† = Ontario Secondary School Honour Graduation Diploma (completion of six credits at the grade 13 level)

The information in this edition was revised March, 1987. As some changes in courses and admission requirements may be made during 1988, students planning to attend college or university in 1988-89 are advised to consult their guidance counsellors and check the official calendars of postsecondary institutions in which they are interested.

Information on postsecondary courses offered in French is summarized in *Tour d'horizon* which is distributed to all francophone and bilingual secondary schools.

To order free copies of *Horizons* please see page 190.

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***Available as of June, 1986.**

**†Available up to August 31, 1989.**

## Students' Costs

### Total Costs

Total costs for an eight-month academic year at a postsecondary institution may vary from approximately $2 300 for a student living at home and attending a college of applied arts and technology (CAAT) to approximately $7 300 or more for a university student living on campus or boarding away from home.

### Annual Tuition Fees

University tuition or academic fees may usually be paid in two instalments, depending on the institution. CAAT fees must generally be paid in one instalment. When accepting an offer of admission by a college of applied arts and technology, applicants are required to send a non-refundable confirmation fee, which is deducted from the full tuition fee. Some universities also require a deposit on tuition fees for limited-enrolment programs.

The figures below show the approximate range of full-time, undergraduate, annual fees for various subject areas for the 1987-88 academic year. In most instances, incidental fees are included. Specific fees are listed under individual universities and colleges. All fees are approximate and subject to change without notice.

**University Degree Programs – Annual Fees (including incidental fees)**

| | |
|---|---|
| arts | $1 315 – $1 720 |
| commerce | $1 315 – $1 485 |
| dentistry (including kit fee) | $4 000 – $5 380 |
| education | $1 315 – $1 485 |
| engineering | $1 315 – $1 720 |
| law | $1 315 – $1 485 |
| medicine | $1 670 – $1 840 |
| nursing | $1 450 – $1 485 |
| physical education | $1 465 – $1 580 |
| science | $1 315 – $1 720 |

**Other Institutions – Annual Fees**

| | |
|---|---|
| Ontario College of Art | $1 170 |
| Community colleges (two terms)* | $595 |
| Regional Schools for Nursing Assistants | $340 |
| Royal Military College | $1 080 |
| Ryerson Polytechnical Institute | $1 170 |

*Fees may vary according to length of program.

### Foreign Student Fees

The policy of the Ontario government is that foreign students should pay a higher proportion of the cost of their education than Canadian students. Tuition fees for foreign students are therefore higher than for Canadians.

Certain foreign students are exempt from the higher fee, including diplomatic and consular officials and their dependants, children and spouses of persons admitted to Canada for the purpose of engaging in employment, Convention refugees, students sponsored by the Canadian International Development Agency, and students studying in Canada under eligible cultural exchanges. Students who are unsure about their status in this matter or who want more information are urged to contact the institution to which they are applying.

Tuition fees for foreign students registering in most programs at the colleges of applied arts and technology are $4 960 per two-term academic year.

Since the universities are autonomous in the area of determining the fees charged to their students, the final decision on the fees for foreign students is left to the board of governors. Generally, university foreign student fees range from $4 500 to $8 250 (per two-term academic year) for new registrants, depending on the institution and program chosen. However, students are cautioned to check with the individual institutions for details on the actual fees charged to foreign students.

### Transportation

At least $45 a month should be added to the living expenses of the student who is not within walking distance of classes. This figure will vary according to the public transportation rates, car pool arrangements, and parking fees.

### Books and Student Supplies

CAAT and university students usually need $300 to $700 per year for books and supplies. Students in specialized or professional university courses such as architecture, dentistry, and medicine, or in CAAT programs such as photography, cinematography, advertising, and graphic arts, may require additional funds for the purchase of books, instruments, and supplies.

### Incidental (Ancillary) Fees

The ancillary fees charged by universities cover such costs as health insurance, athletics and recreational facilities, student government, and work-term placement. Such fees are collected as separate mandatory fees. At all postsecondary institutions, tuition-related fees such as laboratory, shop, and computer user costs are included in the standard tuition fee. Specific information concerning all mandatory ancillary fees may be obtained by consulting the calendars of the various universities and colleges.

**Application and Examination Fees**

Students wishing to enter university in any year are required to submit their application to the Ontario Universities' Application Centre. An $11 fee must accompany the common application form when submitted. For further information, please see the *General Information on Ontario Universities* section.

Students wishing to apply to colleges of applied arts and technology are not required to submit an application fee. However, some institutions require a fee from students writing special examinations; for further information, contact your secondary school guidance counsellor or the CAAT.

**Health Insurance**

If your parents have Ontario health insurance, you are covered as their dependant only until you become 21 years of age, marry, or take regular employment. The monthly premium for a single person is $29.75, and for a family $59.50. However, premium assistance is available to single persons with a taxable income of $3 000 or less in the current year, and to families with an estimated taxable income of $3 500 or less. If you are not covered by an existing health plan or require health insurance information, contact the

Ontario Health Insurance Plan
P.O. Box 38
Kingston, Ontario K7L 5J2
Telephone (613) 548-6595

**Board and Lodging**

All Ontario universities and some CAATs in Northern Ontario have residence facilities. Depending on meal plans and occupancy, residence costs range from approximately $2 200 to $3 800 or over for an academic year. Specific costs are listed under the individual universities in this publication and in university calendars. Students who choose board and lodging should allow at least $105 a week to cover these costs. All institutions maintain a housing registry, which lists available accommodation in the area.

**Miscellaneous Expenses**

In addition to the basic student costs of board and lodging and tuition fees, there are incidental expenses that you must consider in your estimate of the annual cost of a year at a university or college. You should allow a weekly average of about $30 for miscellaneous items such as laundry, personal needs, and entertainment.

## Financial Assistance for Students

Students who need financial assistance to attend a university, college of applied arts and technology (CAAT), or other postsecondary institution may be able to obtain it from government or private sources.

A number of corporations, veterans' organizations, and service clubs offer scholarships for general academic excellence or excellence in particular subjects, and most universities have entrance scholarships for outstanding scholars. Information on these bursaries and scholarships should be available from your guidance office or from university and CAAT calendars and financial aid offices.

About two of every five full-time students at Ontario's CAATs and universities receive government financial aid. The Ontario government administers the federal and provincial student assistance programs outlined below.

### Ontario Student Assistance Program (OSAP)

OSAP is intended to help students who need money for postsecondary education. Academic excellence is not a qualification, although students are expected to progress satisfactorily in their studies. OSAP funds supplement, but do not replace, a student's own financial resources and those of his or her immediate family.

OSAP comprises six plans:

- Ontario Study Grant Plan
- Canada Student Loans Plan
- Ontario Student Loans Plan
- Ontario Special Bursary Plan
- Ontario Work-Study Plan
- Part-time Student Loans Plan (Canada Student Loans).

The main features of the program are summarized below. Full information is contained in the brochure *Ontario Student Assistance Program 1987-88,* which you may obtain from your guidance counsellor, from the financial aid administrator at the institution you are planning to attend, or from the Ministry of Colleges and Universities (the address appears in "Further Information", near the end of this section). Brochures describing OSAP for the 1988-89 academic year and application forms will be distributed to all Ontario secondary schools in the spring of 1988.

You can use the same application form to apply for an Ontario Study Grant, a Canada Student Loan, and an Ontario Student Loan. When your application is processed, the ministry first evaluates the amount of grant that you may receive from the Ontario Study Grant Plan. The ministry then considers your eligibility for loan assistance. You may decide for yourself how much of this additional loan assistance you wish to accept.

Separate application forms for the Ontario Special Bursary Plan and the Part-time Student Loans Plan (Canada Student Loans), described below, are available from the Ministry of Colleges and Universities and from the financial aid offices at all Ontario universities and CAATs. Application forms are also available from institutions that offer the Ontario Work-Study Plan.

*Eligibility*

To qualify for OSAP assistance, you must be a Canadian citizen or permanent resident and meet Ontario's residency requirements. You may qualify for grant and loan assistance from OSAP if you plan to attend one of the following institutions in Ontario:

- a college of applied arts and technology
- a university
- a college of agricultural technology
- a regional school for nursing assistants
- some registered private vocational schools
- approved hairstyling schools (Canada Student Loans only)
- Canadian Memorial Chiropractic College
- Bar Admission Course
- Ontario College of Art
- Niagara Parks Commission School of Horticulture
- Royal Conservatory of Music
- Royal Military College (Canada and Ontario Student Loans only)
- Ryerson Polytechnical Institute
- Toronto Institute of Medical Technology

Outside Ontario, you may qualify for grant, Canada Student Loans, and Ontario Student Loans assistance if you plan to attend any university or approved college of applied arts and technology in Canada or a Canadian military college.

Ontario residents who wish to attend public or private postsecondary institutions elsewhere in the world may be eligible to receive loans through the Canada Student Loans Plan (CSL), but they will not be eligible for grants or Ontario Student Loans.

OSAP requires that you enrol in a program leading to a degree, diploma, or certificate. You may be eligible for a Canada Student Loan if your program of study lasts at least 12 weeks in one academic year and is a minimum of 60% of a full course load. For the Ontario Study Grant Plan your program must last at least 10 weeks, and for the Ontario Student Loans Plan at least 4 weeks.

The Ontario Study Grant Plan and the Ontario Student Loans Plan require that you take at least 20% of a full course load in order to apply for assistance. You can be either a full- or part-time student.

*Calculating Your Financial Need*

Under both the grant and loans plans, your financial need is calculated by subtracting your expected financial contribution from allowable educational expenses. You will receive financial assistance if these educational expenses are more than the amount of money that you or you and your family are expected to contribute toward these expenses. However, if your expected financial contribution is equal to or more than the costs of your postsecondary education, you will not receive any financial assistance from OSAP.

*Allowable Educational Expenses*

Allowable educational expenses include the actual or estimated costs of the following items, as determined by the institution you are planning to attend and approved by the ministry:

- tuition and compulsory fees
- books and equipment
- personal and living expenses
- return trip home each year and
- local transportation

*Expected Financial Contribution*

Depending upon your circumstances, your expected financial contribution may include amounts you are expected to have saved from summer or work-period earnings, or include a contribution from your earnings from part-time work after enrolment. Academic awards, other awards and income, government income, investment income, and a contribution from assets may also be considered as financial resources.

In addition, if you are just leaving secondary school and applying for assistance to attend a postsecondary educational institution, your parents are likely to be expected to contribute to your basic educational costs, according to their financial resources. To determine their contribution, an objective assessment is made of your parents' income, and allowances are made for their basic expenses and the number of their dependants. A contribution from parents' net assets may also be considered as a financial resource.

*Loan and Grant Assistance*

Loans are usually interest free until six months after you cease to be an eligible student. Ontario Study Grants do not normally have to be repaid.

Applicants eligible for grants and loans may receive assistance up to the amount of their financial need, subject to the maximums under each plan. Under the Canada Student Loans Plan, applicants may obtain a maximum of $105 per week of their study period.

Under the Ontario Student Loans Plan, applicants may be eligible to receive up to $900 per term.

*Where, When, and How to Apply for Financial Assistance*

If you are planning to attend an Ontario college or university or one of the other Ontario institutions listed above, you can get your OSAP application form directly from your guidance office or the institution's financial aid office. To apply for assistance to attend any other postsecondary institution, you can obtain the necessary forms from the Student Awards Branch of the Ministry of Colleges and Universities (the address appears in "Further Information", near the end of this section). When requesting your application form, please state the name of the institution you plan to attend.

Mail your OSAP application to the financial aid office at the institution you plan to attend, or take it to the office personally to be checked for completeness and accuracy. You may submit your application as soon as the forms are available, usually in April.

Your application should be submitted no later than July 1, in order to be processed for fall registration.

If you intend to enter a trimester or co-operative program, you should submit your application before the end of the first month of the semester to which the application refers.

To obtain further information about the Ontario Student Assistance Program, contact the financial aid office of the institution you plan to attend or the Student Awards Branch of the Ministry of Colleges and Universities.

**Ontario Special Bursary Plan**

The aim of the Ontario Special Bursary Plan is to encourage people in serious financial need to begin part-time postsecondary studies or take approved upgrading courses so that they may improve their training and skills to enhance their job opportunities. You may be eligible for a bursary if:

- you are a Canadian citizen or a permanent resident who has been in Canada as a permanent resident for 12 consecutive months;

- you have resided in Ontario for the 12 consecutive months immediately prior to the month in which classes commence, not counting time spent as a full-time student;
- you are receiving social assistance, are unemployed, or have a low family income;
- you are taking or are intending to take:
  - credit courses (on a part-time basis) leading to a degree, diploma, or certificate; or
  - upgrading courses (either on a full- or part-time basis) offered by a college of applied arts and technology; or
  - in special cases, approved correspondence courses at certain institutions in Ontario;

  and
- you are registered or are intending to register at one of the following Ontario postsecondary institutions:
  - a college of applied arts and technology;
  - the Ontario College of Art;
  - a private vocational school approved for Ontario Special Bursary Assistance;
  - Ryerson Polytechnical Institute; or
  - a university.

If you are eligible, you may receive a bursary to cover the costs of your tuition and other compulsory fees, books and equipment, and local transportation expenses. You may also receive a supplementary grant of $10 per week to help cover costs such as babysitting. The maximum amount of assistance per academic year is $1 500.

**Ontario Work-Study Plan**

The Ontario Work-Study Plan is designed to help financially needy students meet their educational costs by partially funding part-time work during the school year, thereby reducing dependence on loan funding.

This plan is available at many Ontario CAATs and universities. It is operated on a cost-sharing basis – 50% is paid by the Ontario government and 50% is paid by the sponsoring agency (the institution, a student organization, etc.).

- *Part-Time Student Loans Plan (Canada Student Loans)*

The purpose of this plan is to make available to needy part-time students guaranteed loans that will help to cover the cost of tuition fees, books, learning materials, transportation, and other related expenses.

You may be eligible for a Canada Student Loan for part-time studies if:

- you are a Canadian citizen or permanent resident;
- you are attending or planning to attend a designated postsecondary institution in Canada;
- you are a resident of Ontario;
- you have a gross family income no greater than that specified in the table below;
- you are not in default on a previous part-time Canada Student Loan;
- you are taking between 20 and 60% of a full-time course load;
- you have an outstanding principal balance on previous part-time student loans of less than $2 500.

| | Maximum income | No. of dependants |
|---|---|---|
| Single student | $24 500 | – |
| Married student* | $27 260 | 1 |
| | $30 660 | 2 |
| | $34 060 | 3 |
| | $37 450 | 4 |
| | $40 850 | 5 |
| | $44 250 | 6 or more |

*For the purpose of OSAP, a single student with one or more dependent children is considered "married".

**Fellowships and Bursaries for Second-Language Study**

There are a number of federal-provincial programs related to Canada's two official languages. These include:

- *Bursaries for Summer French Courses for Francophones Outside of Quebec*

A bursary of $1 300 is available to eligible francophone students in Ontario who wish to perfect their mother tongue and improve their knowledge of their own culture. Students in their second-to-last year of secondary school studies take the course at the Cégep de Jonquière or at the Centre universitaire de Moncton. Students who have completed their secondary school studies take the course at the Université du Québec à Trois-Rivières.

- *Fellowships for Studying in French*

A program funded by the Secretary of State, providing fellowships for the first year of study in any discipline taken in the French language at the graduate or undergraduate level in a French-language or bilingual Canadian university or college of applied arts and technology in Ontario, or in a French-language cegep in Quebec (professional program). Eligible students may receive up to $2 000 for only their first year of studying in French.

•*Summer Language Bursary Program*
This bursary program, funded by the Secretary of State for summer language study, gives institutions $1 300 to cover the cost of tuition and board and lodging for each student taking immersion courses in a second official language, either English or French. Participants must be full-time students and must have general postsecondary standing at the time of application or have attained such standing by the time they become involved in the program.

### Further Information

*For further information on any of these financial assistance programs, contact your guidance counsellor, financial aid administrator, or*
Information Section
Student Awards Branch
Ministry of Colleges and Universities
8th Floor
Mowat Block, Queen's Park
Toronto, Ontario M7A 2B4
Telephone (416) 965-5241

If you are calling from outside Metropolitan Toronto you may call toll-free by dialing 1-800-268-3748.

Calls from communities within area code 807 may be placed by dialing 0 (zero) and asking for Zenith 56670.

The following three monitor programs are administered by the staff of the Education Liaison and Exchange Branch.

•*Full-Time Monitor Program*
This pilot project is aimed at students who have completed at least one year of university level study and who are prepared to be monitors from September to June. The remuneration is $9 000. The monitors may be French- or English-speaking students. They are normally required to leave their home province and are assigned to rural or semi-urban areas, where they will help other students improve their conversational skills in either English or French.

•*Monitor Program for Francophones in Minority Areas*
This program is available to second-year students who are registered full-time at a postsecondary institution. The program offers students the opportunity to work as monitors to help francophone students in minority areas perfect their native language and enrich their knowledge of francophone culture. The remuneration for eight months' participation in the program is $3 200.

•*Second-Language Monitor Program*
A program providing a maximum of $3 200 to selected full-time university students in Canada who work part-time in educational institutions as second-language monitors. This federal government program funded by the Secretary of State usually applies to monitors working and studying outside their home province.

*For further information, please contact*
Ministry of Education
14th Floor
Mowat Block, Queen's Park
Toronto, Ontario
M7A 1L2
Telephone (416) 965-5996

### Financial Support from the Federal Government

The Canada Employment and Immigration Commission (CEIC) provides financial support for participants in some college certificate and diploma programs, under the Canada-Ontario training agreement of 1982.

For those applicants who meet the eligibility criteria, the CEIC may provide income support – in the form of Unemployment Insurance benefits or a weekly allowance – and may pay for the persons' tuition.

*Further Information*
For further information on CEIC support, contact the local Canada Employment Centre (listed in the blue pages of the telephone book under "Government of Canada/Employment and Immigration Canada") or the college.

### Ontario Scholarships

Awards of $100 are made on the recommendation of secondary school principals to Grade 13 students who have an overall average of 80% or better in six Grade 13 credits. Additional information may be obtained from your high school guidance office.

## General Information on Colleges of Applied Arts and Technology

Ontario's colleges of applied arts and technology (CAATs) provide students the opportunity to develop the skills necessary to prepare for rewarding careers in business, the applied arts, technology, social services, and health sciences.

There are 22 CAATs, with more than 100 campuses throughout Ontario, serving all major economic regions of the province. During 1986-87, the CAATs had an enrolment of more than 111 000 full-time students in certificate and diploma programs, in addition to those attending college as part of their apprenticeship training. The number of part-time students was approximately 715 000.

The CAATs offer a variety of full-time and part-time career-oriented programs for secondary school graduates and for mature students who have not completed secondary school.

While there are exceptions, most college programs fall into two categories – diploma programs, which last at least four semesters (usually over a two-or three-year period), and certificate programs, which last less than four semesters. A "program" consists of a number of "courses" leading toward a diploma or certificate. For instance, a diploma program in mechanical engineering technology might include courses in mathematics, drafting, the mechanics of metals, machine tools, etc.

Some programs are offered on a part-time basis; students may complete courses leading toward a certificate or diploma during the evening or on weekends. Colleges also offer non-credit career-oriented courses and non-credit general interest courses.

To determine whether a particular program or course is offered, contact the CAAT.

**General Admission Requirements**
The following persons are eligible to apply for admission to CAAT programs:

- those who hold, at least, an Ontario Secondary School Diploma (OSSD), obtained at the end of Grade 12 from any secondary school program.
- mature students who are 19 years of age on or before the date of commencement of the program in which they plan to enrol.

However, admission requirements vary from program to program; therefore, applicants should consult the calendar of the CAAT they plan to attend. Calendars may be obtained from secondary school guidance offices or directly from the college registrar.

Students will be admitted to programs in the following order of preference:

- permanent residents of Ontario
- permanent residents of other Canadian provinces or territories
- students from Commonwealth countries
- students from other countries

**Additional and Special Admission Requirements**
After some of the program descriptions in the college-by-college listing there may be a section entitled *Additional Admission Requirements* or *Special Admission Requirements,* which lists specific requirements for admission to the programs.

The requirements listed under the heading *Additional Admission Requirements* are in addition to the OSSD and apply to all programs in the listing unless indicated otherwise. In the example below, the CAAT requires Grade 12 English in addition to an OSSD for admission to all the programs listed.

**• Arts and Science – General and Applied**

*Two-year diplomas*
Early childhood education, general arts and science, recreation leadership.

*Additional admission requirements:* Grade 12 English.

Under the heading *Special Admission Requirements* are listed the requirements for admission to special programs.

**Programs Offered**
Most programs offered at the CAATs are described in the college-by-college listing in four broad categories: Applied Arts *or* Arts and Science – general and applied; Business; Health Sciences; and Technology.

The listing also includes descriptions of:

- college preparatory programs for academic upgrading
- alternative programs
- continuing education
- special programs

For a summary listing of programs offered by individual colleges, students can consult the CAAT program charts on the following pages and the listings in particular college sections. For specific information on any program or course, students should check the individual college calendars or visit their nearest college.

An alphabetical cross-reference index accompanies the CAAT charts. Also, a uniform style is maintained for most "Technician," "Techniques," and "Technology" programs. These terms are abbreviated and listed alphabetically:

"Technician"...is shown as..."Tn"
"Techniques"...is shown as..."Tques"
"Technology"...is shown as..."Ty"

To find a subject in the chart:

1. locate the desired program name in the index;
2. note the code number that follows this name; and
3. turn back to the appropriate numerically coded listing in the CAAT chart.

### Nursing Programs

CAATs and Ryerson Polytechnical Institute are responsible for the preparation of nurses at the diploma level. After successfully completing the program, graduates are eligible to write an examination, conducted by the College of Nurses of Ontario, for registration as nurses in Ontario.

In the early 1980s the CAATs implemented new program standards that lengthen the clinical experience component of the nursing programs. Colleges have the flexibility to implement the new standards in the program format they consider to be most appropriate. The Ministry of Colleges and Universities' stipulation is that the total teaching time not exceed 24 months.

The formats chosen by the CAATs include two-year, two-and-one-half-year, and three-year programs. The various program patterns provide a choice for the students in both pacing and duration.

The two-year program is a more concentrated, six-term educational offering and is structured to include terms during the summers. The three-academic-year program also consists of six terms, but it allows for free summers. The two-and-one-half-year program has shorter summer terms as well as a final fall term, which terminates in December.

### Technology

CAATs offer three types of training programs in technology:

- *Technologist Programs*

A technologist is primarily involved in the design and development of industrial products and processes. A typical full-time technologist training program takes six semesters or three years, with free summers.

- *Technician Programs*

A technician is primarily involved in the installation, maintenance, manufacture, and quality control of industrial products. A typical full-time technician program lasts four semesters or two years, with free summers.

CAATs also offer non-semestered technician programs in selected occupations. Non-semestered technician programs may be somewhat shorter because of continuous operation during the summer months.

Individuals may be supported in these programs by the Canada Employment and Immigration Commission (CEIC) under the Canada-Ontario Agreement on Institutional Training and Training Services. The CEIC may pay tuition costs and provide either a weekly Unemployment Insurance benefit or a weekly allowance. Students referred to a college away from their place of residence may receive travel and living-away-from-home allowances.

- *Certificate Programs*

Certificate programs last one year or less. They prepare trainees for skilled and semi-skilled positions. In some cases, students participating in certificate programs are supported by the Canada Employment and Immigration Commission (CEIC) under the Canada-Ontario Agreement on Institutional Training and Training Services. The CEIC may pay the tuition fees on behalf of the student and provide income support during the training program – through either Unemployment Insurance benefits or a living allowance.

Other students pay their own fees. The course of study is the same for both fee-payers and federally supported students. Some persons may have to take a college preparatory course, such as Basic Training for Skill Development (BTSD), before entering a certificate program. Further information about federal assistance is available from the local Canada Employment Centre or from the CAAT. *Note:* Certificate programs are also offered in other fields of study.

*Technological Careers for Women:* Traditionally, few women have entered technological careers. However, CAATs are encouraging and assisting women to prepare for careers in non-traditional occupations.

Of course, all CAAT programs are open to both men and women. Some women may require preparatory training before selecting a career and beginning training. Therefore, a number of CAATs offer courses specifically for women interested in careers in technology; they are listed on page 31.

### College Preparatory Programs for Academic Upgrading

College preparatory programs are designed to help mature students prepare for their next academic or skill-training step. One of the major college preparatory programs is Basic Training for Skill Development (BTSD).

Before beginning an upgrading program, students must normally take a test to assess their academic background and level. Working at their own pace, students must meet specified objectives before continuing to the next level. Certificates are issued for each BTSD program completed. Students should be aware that they cannot apply certificates received for completing a BTSD program toward an OSSD. Completion of an upgrading program in a specific area (academic, technical, etc.) will prepare students to enter a college-level program in that area at any CAAT.

Fees are charged, but students may be eligible to receive financial support from the Canada Employment and Immigration Commission under the Canada-Ontario Agreement on Institutional Training and Training Services.

### Alternative Programs

In addition to the programs listed above, CAATs play a vital role in a number of other programs administered by the Ministry of Skills Development:

- *Apprenticeship*

CAATs provide the institutional portion of training under the apprenticeship program. Apprentices spend about 90% of their training program learning on-the-job; however, they do attend college to learn skills they might not have learned in the workplace. For instance, a general machinist apprentice attends the CAAT three times during the four-year apprenticeship program. These college terms – called Basic, Intermediate, and Advanced – each last two months. The number and length of in-college terms varies from occupation to occupation. Apprentices attending CAATs may receive financial support from the Canada Employment and Immigration Commision, under the Canada-Ontario Agreement on Institutional Training and Training Services. Further information on apprenticeship is provided in the *Apprenticeship* section of this directory.

- *Futures*

Futures is specifically designed to provide on-the-job training, work experience, and educational upgrading to young people under the age of 25 who face continuing unemployment. Included in the program is a guarantee of one full year's work experience and on-the-job training for young people who have not completed high school and who make a commitment to educational upgrading. Individuals requiring pre-employment preparation will be provided with training in basic social and employment skills, receiving a weekly stipend of $100 during this portion of the program. During job placement, trainees are paid at the rate of $4.35 per hour. For further information, contact your local college or youth employment counselling centre.

- *Ontario Management Development Program*

This program is designed to help managers improve their supervisory skills. Programs offered include human relations, effective communication, and planning. It is offered at most CAATs and in many workplaces. For more information, contact your employer or the industrial training consultant at your nearest CAAT.

- *Industrial Training*

CAATs also assist employers to establish on-the-job training programs. Employers may receive financial support for these programs from the Canada Employment and Immigration Commission under the Canada-Ontario Agreement on Institutional Training and Training Services. For more information, contact your employer or the industrial training consultant at your nearest CAAT.

### Continuing Education

Continuing education provides the opportunity to all members of the community to learn at a time and place that is convenient to them.

The majority of CAATs in Ontario offer a variety of credit and non-credit courses. Courses can usually be taken on a part-time day or evening basis throughout the year. Depending on the college and programs, students may work toward a certificate or diploma. In addition, most CAATs offer non-credit courses covering a broad range of career-oriented and general-interest subjects.

In general, these courses are offered on CAAT campus locations, but many are offered at other locations, such as churches, secondary schools, and community centres.

For lists of courses and programs offered through continuing education, contact the CAAT.

### Transfer Possibilities for CAAT Graduates

While it is not intended that the CAATs should act as feeder institutions to the universities, graduates of two-year programs may be accepted on an individual basis for admission to the first year of certain university programs.

Qualified graduates of the three-year programs may, in some instances, be admitted to the second year of a related university program. For example, a graduate from an engineering technology program may qualify for admission to a university degree program in engineering, if places are available. Decisions about the admissibility of individual CAAT graduates to degree programs are made by the admissions officers of the universities concerned.

**Fees**

Tuition fees for a full program are $620 per academic year for most full-time diploma programs. Fees may vary, however, according to program length. Fees for tuition short programs are $17.35 per week and $1.25 per hour for part-time courses. Fees for foreign students (per two-term academic year) are $5 173. See the introductory section *Students' Costs* for further information.

**Other Facilities**

The CAATs were planned to be within commuting distance of the main population centres. Therefore, provision has not been made for residence accommodation, except at some Northern Ontario colleges. Students can check with the housing bureau or student services office of the CAAT they plan to attend regarding available residence facilities or lists of off-campus housing in the community.

Each CAAT operates counselling services and health centres, and most have a wide range of sports facilities, resource centres, and job placement services.

**Further Information**

For more detailed information on the CAATs, check the individual college sections in this publication or consult the college calendars, which are available in secondary school guidance offices, or get in touch with the registrar's office at the CAAT. Additional information may be obtained from
Ministry of Colleges and Universities
Mowat Block, Queen's Park
Toronto, Ontario M7A 1L2
Telephone (416) 965-6407

# Colleges of Applied Arts and Technology

Philip T. Killeen
President
Algonquin College of Applied
Arts and Technology
1385 Woodroffe Avenue
Nepean, Ontario K2G 1V8

Glenn N. Crombie
President
Cambrian College of Applied
Arts and Technology
1400 Barrydowne Road
Station A
Sudbury, Ontario P3A 3V8

Murray A. Hewgill
President
Canadore College of Applied
Arts and Technology
P.O. Box 5001
Gormanville Road
North Bay, Ontario P1B 8K9

I. Bev McCauley
President
Centennial College of Applied
Arts and Technology
41 Progress Court
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9

K.E. Hunter
President
Conestoga College of Applied
Arts and Technology
299 Doon Valley Drive
Kitchener, Ontario N2G 4M4

B.E. Curtis
President
Confederation College of Applied
Arts and Technology
P.O. Box 398, Station F
Off Edward Street
Thunder Bay, Ontario P7C 4W1

Melvin L. Garland
President
Durham College of Applied
Arts and Technology
P.O. Box 385
2000 Simcoe Street North
Oshawa, Ontario L1H 7L7

Dr. Barry Moore
President
Fanshawe College of Applied
Arts and Technology
P.O. 4005, Terminal C
1460 Oxford Street East
London, Ontario N5W 5H1

Douglas E. Light
President
George Brown College of
Applied Arts and Technology
P.O. Box 1015, Station B
500 MacPherson Avenue
Toronto, Ontario M5T 2T9

Wayne F.J. Busch
President
Georgian College of Applied
Arts and Technology
One Georgian Drive
Barrie, Ontario L4M 3X9

Robert A. Gordon
President
Humber College of Applied
Arts and Technology
P.O. Box 1900
205 Humber College Boulevard
Etobicoke, Ontario M9W 5L7

Tony Wilkinson
President
Lambton College of Applied
Arts and Technology
P.O. Box 969
1457 London Road
Sarnia, Ontario N7T 7K4

Herbert Young
President
Loyalist College of Applied
Arts and Technology
P.O. Box 4200
Wallbridge/Loyalist Road
Belleville, Ontario K8N 5B9

Keith L. McIntyre
President
Mohawk College of Applied
Arts and Technology
135 Fennell Avenue West
Hamilton, Ontario L8N 3T2

Jacqueline P. Robarts
President
Niagara College of Applied
Arts and Technology
P.O. Box 1005
Woodlawn Road
Welland, Ontario L3B 5S2

J.H. Drysdale
President
Northern College of Applied
Arts and Technology
P.O. Box 2002
South Porcupine, Ontario P0N 1H0

R. Bruce McAusland
President
St. Clair College of Applied
Arts and Technology
2000 Talbot Road West
Windsor, Ontario N9A 6S4

W. William Cruden
President
St. Lawrence College
Saint-Laurent
2288 Parkedale Avenue
Brockville, Ontario K6V 5X3

P.R. Doyle
President
Sault College of Applied
Arts and Technology
P.O. Box 60
443 Northern Avenue
Sault Ste. Marie, Ontario P6A 5L3

W.R. McCutcheon
President
Seneca College of Applied
Arts and Technology
1750 Finch Avenue East
North York, Ontario M2J 2X5

Donald A. Shields
President
Sheridan College of Applied
Arts and Technology
1430 Trafalgar Road
Oakville, Ontario L6H 2L1

Charles E. Pascal
President
Sir Sandford Fleming College
of Applied Arts and Technology
P.O. Box 653
526 McDonnel Street
Peterborough, Ontario K9J 7B1

**Legend**

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*̄ : Program is bilingual.
⊙ : Program is possible.
A : Program is offered in French only
Tn : Technician
Tques : Techniques
Ty : Technology

# Apprenticeships

| | Algonquin (Ottawa) | Algonquin (Pembroke) | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern (South Porcupine) | Northern (Kirkland Lake) | Northern (Haileybury) | St. Clair | St. Lawrence (Kingston) | St. Lawrence (Brockville) | St. Lawrence (Cornwall) | Sault | Seneca | Sheridan | Sir Sandford Fleming (Peterborough) | Sir Sandford Fleming (Lindsay) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **001 Regulated Apprenticeships** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 Alignment & Brakes Mechanic | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 003 Auto Body Repairer | * | | | | * | | | | * | | | | | | | | | | | | | | | | | | | |
| 004 Automotive Machinist | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 005 Automotive Painter | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 006 Baker | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 007 Barber | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 008 Boilermaker (Construction) | | | | | * | | | | | | | * | | | | | | | | | | | | | | | | |
| 009 Boilermaker (Shop) | | | | | | | | | | | | | * | | | | | | | | | | | | | | | |
| 010 Brick & Stone Mason | | | | | | | | | | * | | | | | | | | | | | | | | | | | * | |
| 011 Carpenter, Forming (Preapprenticeship) | | | | | | | | | | | | | | | | | | | | | * | | * | | | | | |
| 012 Carpenter, General | * | | | | | * | * | | * | * | * | | | | * | | | | | * | | | | | | | | * |
| 013 Cook | * | | | | | * | | | * | * | * | * | | | | * | | | | | | | | * | | | | |
| 014 Dry-Wall & Acoustic Mechanic | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 015 Electrical Motor & Apparatus Rewinding & Repair | | | | | | * | | | | | | | | | | | | | | | | | | | | | | |
| 016 Electrician | * | | | | | * | * | * | * | * | | * | | | * | | * | | | * | * | | | * | | | * | |
| 017 Farm Equipment Mechanic | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 018 Fitter/Welder | | | * | | | | | * | * | * | | | | | * | | | | | | | | | | | * | | |
| 019 Fuel & Electrical Systems Mechanic | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 020 Glazier & Metal Mechanic | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 021 Hairdresser/Hairstylist | * | | | | | | | | * | * | | * | | | | | | | | * | | | | * | | | * | |
| 022 Heavy Duty Equipment Mechanic | | | | | * | | * | | | | | | | | | | | | | | | | | * | | | | |
| 023 Ironworker | | | | | | | | | | | | | | | | | | | | | | | * | | | | | |
| 024 Lather | *̄ | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 025 Machinist, General | * | | * | | * | * | | * | * | * | * | * | | * | * | * | | | | | | | * | | | * | * | |
| 026 Millwright | | | * | | | * | * | * | * | * | * | | | | * | * | * | | | | | | * | * | | * | * | |
| 027 Millwright (Refresher) | | | * | | | | | | | | | | | | | | | | | | | | | | | | | |
| 028 Motor Vehicle Mechanic | * | | | * | * | * | * | * | * | | | | | * | * | * | * | | | * | | | * | * | | | | |
| 029 Motor Vehicle Mechanic (Truck/Coach) – Map 40 | | | | | | | | | * | | | | | | * | | | | | | | | * | | | | | |
| 030 Motorcycle Mechanic | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 031 Mould Maker | | | | | * | * | | * | * | * | | | | | | | | | | | | | | | | * | | |
| 032 Painter | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 033 Plumber | * | | | | | * | | | * | * | | * | | | * | | | | | * | * | | | * | | | | |
| 034 Radio & Television Tn | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 035 Refrigeration & Air-conditioning Mechanic | * | | | | | | | | | * | | | | | * | | | | | | | | | | | | | |
| 036 Saw Filer Fitter | | | | | | | | | | | | | | | | | * | | | | | | | | | | | |
| 037 Sheet Metal Worker | * | | | | | | | | * | * | | * | | | * | | | | | | | | | | | | | |
| 038 Sprinkler & Fire Protection Installer | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 039 Steam Fitter | | | | | | | | | | * | | * | | | | | | | | | | | | * | | | | |
| 040 Tool & Die Maker | | | | | * | * | | * | * | * | * | * | | | * | * | | | | | | | | | | * | * | |
| 041 Transmission Mechanic | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 042 Truck/Trailer Repairer | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| **043 Other Apprenticeships** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 044 Fitter, Structural Steel Plate Work | | | * | | | | | | | * | | | | | | | | | | | | | * | | | * | | |
| 045 Horticulturist | | | | | | | | * | | | | * | | | | | | | | | | | | | | | | |

**Legend**

- * : Program is offered at the college indicated. Call the college for details.
- *̲ : Program is also offered in French.
- *̄ : Program is bilingual.
- ⊙ : Program is possible.
- A : Program is offered in French only
- Tn : Technician
- Tques : Techniques
- Ty : Technology

| | | Algonquin (Ottawa) | Algonquin (Pembroke) | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern (South Porcupine) | Northern (Kirkland Lake) | Northern (Haileybury) | St. Clair | St. Lawrence (Kingston) | St. Lawrence (Brockville) | St. Lawrence (Cornwall) | Sault | Seneca | Sheridan | Sir Sandford Fleming (Peterborough) | Sir Sandford Fleming (Lindsay) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 046 | Industrial Electronic Controls | | | | | | | * | | | * | | | | | * | | * | | | | | | | * | | | | |
| 047 | Industrial Woodworker | * | | | | | * | | | * | | | | | | * | | | | | | | | | | | | | |
| 048 | Maintenance Tn | | | | | | | | | | | | | | | | | | | | | | | | * | | | | |
| 049 | Marine & Small Engine Mechanic | | | | | * | | * | | | | | | | | | | | | | | | | | | | | * | |
| 050 | Retail Meat Cutter | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 051 | Stationary Engineering | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 052 | Stationary Engineering (3rd / 4th Class) | | | * | | | | * | | | * | | | * | | * | * | | | | * | * | | | * | | | | |
| 053 | Stationary Engineering (2nd Class) | | | | | | | | | | | | | | | | | | | | | | | | * | | | | |
| 054 | Truck & Coach Repairer | | | | | * | | | | | | | | | | | | | | | | | | | * | | | | |
| 055 | Watch Repairer | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |

## Diploma Programs†

| | | Algonquin (Ottawa) | Algonquin (Pembroke) | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern (South Porcupine) | Northern (Kirkland Lake) | Northern (Haileybury) | St. Clair | St. Lawrence (Kingston) | St. Lawrence (Brockville) | St. Lawrence (Cornwall) | Sault | Seneca | Sheridan | Sir Sandford Fleming (Peterborough) | Sir Sandford Fleming (Lindsay) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 056 | **Arts, Visual, Creative, General** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 057 | Advertising Art | *̲ | | | | | | | | * | | | | | | | | | | | * | | | | * | | | | |
| 058 | Apparel, Management / Design | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 059 | Apparel Manufacturing Management | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 060 | Art Conservation Tques | | | | | | | | | | | | | | | | | | | | | | | | | | | * | |
| 061 | Arts Administration | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 062 | College Vocational Program | | | * | | | | * | | | | | | | * | | | | | | | | | | | * | | | |
| 063 | Commercial Art & Design / Packaging Design | | | | | | | | | | | | * | | | | | | | | * | | | | * | | | | |
| 064 | Commercial Ceramics | | | | | | | | | | * | * | | | | | | | | | | | | | | | | | |
| 065 | Community Integration Through Co-operative Education | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 066 | Computer Animation | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 067 | Computer Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 068 | Crafts & Design / Material Arts / Furniture Accessory | | | | * | | | | | | | * | | | | | | | | | * | | | | * | | * | | |
| 069 | Creative & / or Commercial Arts & Crafts[1] | | | | | * | | | | | * | * | | | | | | | | | * | | | | * | | * | * | |
| 070 | Dance | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 071 | Design Arts / Basic Design | | | | | | | | | | | * | | | | | | | | | | | | | * | * | * | | |
| 072 | Fashion Arts / Modelling / Design / Merchandising | | | | | * | | | | * | * | * | * | | | | * | | | | | * | | | | * | * | * | |
| 073 | Fine Arts & Crafts / Administration | | | * | | | | | | * | | | | * | | | * | * | | | | * | * | * | * | | | * | |
| 074 | Floriculture, Retail | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 075 | General Arts & Science | *̲ | * | *̄ | * | * | | * | * | * | | * | * | * | * | | * | | | | | * | * | * | | | * | * | * |
| 076 | Graphic Arts Reproduction: Production Co-ordinator | | | | | | | | | | | | | | | * | | | | | | | | | | | | | |
| 077 | Graphic Design | *̲ | | * | | | * | | * | | * | * | * | | | | | | | | | * | | * | | | * | | |
| 078 | Graphic Sign Design & Production | | | | | | | | | | * | | | | | * | | | | | | | | | | | | | |
| 079 | Horsemanship / Equine Care / Harness / Horse Industry Operation | | | | | | | | | | | | * | | | * | | | | | | | | | | * | | | |
| 080 | Industrial Design | | | | | | | | | * | | * | * | | | | | | | | | | | | | | | | |
| 081 | Interior Design / Decorating | *̲ | | | | * | | * | * | * | | * | * | | | | * | | | | * | | | | | | | | |
| 082 | Jewellery & Metal Arts / Repairs / Watchmaking | | | | | | | | | | * | * | | | | | | | | | | | | | | | | | |
| 083 | Landscape Design | *̲ | | | | | | | | * | | | * | | | | | | | | * | | | | | | | | |
| 084 | Music | | | * | | | | | | | | | * | | | * | | | | | | | | | | | | | |

†Diploma programs are of 4 semesters' duration or more. Some of the programs listed in this section are Certificate programs. Call the college for details.

[1] May include: Art Resources, Bookbinding, Ceramics, Fabrics, Glass, Visual Arts.

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*̅ : Program is bilingual.

⊙ : Program is possible.

A : Program is offered in French only

Tn : Technician

Tques : Techniques

Ty : Technology

| | | Algonquin (Ottawa) | Algonquin (Pembroke) | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern (South Porcupine) | Northern (Kirkland Lake) | Northern (Haileybury) | St. Clair | St. Lawrence (Kingston) | St. Lawrence (Brockville) | St. Lawrence (Cornwall) | Sault | Seneca | Sheridan | Sir Sandford Fleming (Peterborough) | Sir Sandford Fleming (Lindsay) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 085 | Music Recording / Production | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 086 | Painting | | | * | | | | | | | | | | | | | | | | | | | | | * | | | | |
| 087 | Piano | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 088 | Pottery | | | * | | | | | | | | | | | | | | | | | | | | | * | | | | |
| 089 | Sign Writing (Commercial Art) / Screen Printing / Print Making | | | * | | | | | | | * | | | | | | | | | | | | | | * | | | | |
| 090 | Theatre Arts / Performing Arts | | | | | | | | | | * | | * | | | | * | | | | | | | | | | * | | |
| 091 | Urban Design | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 092 | Visual Arts: Merchandising | | | | | | | | | | | | | | | | | | | | | | | | * | * | * | | |
| **093** | **Business: Accounting** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 094 | Accounting | *̲ | | *̲ | * | * | | * | * | * | * | * | * | * | * | * | * | *̲ | *̲ | | * | * | | *̲ | * | * | * | * | |
| 095 | Finance | | | | | * | | * | * | | | | | | | | | | | | | | | | * | * | * | * | |
| 096 | Public Assessment / Real Property Appraisal / Administration | | | | | | | | | | | | | | * | | | | | | | | | * | | * | | | |
| **097** | **Business: Administration & Management** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 098 | Air-Carrier / Airport Management | | | | | | | * | | | | * | | | | | | | | | | | | | | | | | |
| 099 | Business Administration: Accounting | *̲ | | *̲ | * | * | * | * | * | * | * | * | | | | * | | *̅ | *̅ | | * | | | | * | | * | * | |
| 100 | Business Administration: Automotive Marketing | | | | | * | | | | | | *̲ | | | | | | | | | | | | | | | | | |
| 101 | Business Administration: General | *̲ | * | *̲ | *̅ | * | * | * | * | * | * | * | * | * | * | * | | *̲ | *̲ | | | | | | * | * | * | * | |
| 102 | Business Administration: Human Resources | * | | | | | | | | | | | | | | | | | | | | * | | | | | * | * | |
| 103 | Business Administration: Marketing | * | | *̲ | * | * | * | | * | * | * | * | | | | * | | *̅ | *̅ | | * | * | | | | * | * | * | |
| 104 | Business Administration: Materials / Inventory Management | * | | | | * | | | * | | | | | | | | | | | | | | | | | | | * | |
| 105 | Business: General / Marketing | *̲ | * | * | *̅ | * | * | * | * | * | * | * | * | * | * | * | * | *̲ | *̲ | | * | | | *̅ | * | * | * | * | |
| 106 | Business: Marina / Recreation Vehicles / Motor Carrier Administration | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 107 | Business Ty: Information / Communication Systems | | | | | * | | | | | | | | | | | | | | | | | * | | | | | | |
| 108 | Computer Information Systems | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 109 | Construction Management / Residential | | | | | * | * | | | | * | | | | | | | | | | | | | | | | | | |
| 110 | Corporate Administration | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 111 | Farm Business / Management | | | | | | | | | * | | | | | | | | | | | | | | | | | | | * |
| 112 | Finance | | | | | * | | | * | * | | | | | | | * | | | | | * | * | *̲ | | | * | | |
| 113 | General Management | *̲ | | | | * | | | * | | | | * | | | | | *̲ | *̲ | | | | | *̅ | * | | | | |
| 114 | Human Services Administration | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 115 | Industrial Administration / Management | | | | | * | | | * | | * | | | | | | * | | | | | | | | | | | | |
| 116 | Insurance | | | | | | | | | | * | | | | | * | | | | | | | | | | | | | |
| 117 | International Business | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 118 | Legal / Office Administration / Assistant | *̲̅ | | *̅ | * | * | * | | * | * | | | * | | | | * | | | | * | * | | | | * | | | |
| 119 | Materials Management / Purchasing | * | | | | * | * | | * | * | | | | | | | | | | | | | | | | | | * | |
| 120 | Municipal / Public Administration / Government Administration | | | | | | | | | * | | | | | | | | | | | | | | | | * | | | |
| 121 | Museum Ty | *̲ | | | | | | | | | | | | | | | | | | | | | | | | | | ⊙ | |
| 122 | Office Systems Administration | * | | * | | * | * | | * | | * | | * | | | | | | | | | | | | | * | * | * | |
| 123 | Packaging Management & Ty | | | | | | | | | | | | | | | * | | | | | * | | | | | | | | |
| 124 | Performing Arts, Management | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 125 | Personnel Administration / Labour Relations / Human Resources Mgt | | | | | * | | * | * | | | | | | | | * | | | | | | | | | * | | * | |
| 126 | Production & / or Operating Management | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | Property Mgt / Real Estate / Insurance / Standards / Assessment | | | | | | | | | * | * | | | | | | | | | | | | | | | | | | |
| 128 | Retail Administration / Management | * | | | | * | | | | | * | | * | | | | * | | | | * | | | | | | * | * | |
| 129 | Translation Tques (Secretarial) | *̅ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 130 | Wood Products Management | | | | | | | | | | | | | | | | | | *̲ | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 131 **Business: Data Processing** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132 Computer Information Systems | | | | | * | | | | | | | * | | | | | | | | | | | | * | | * | | |
| 133 Computer Operations / Data Processing & Analysis | ± | | ± | * | * | * | * | * | * | * | * | | * | * | | * | ± | ± | | * | * | * | ∓ | * | * | * | * | |
| 134 Computer Programmer | ± | | | * | * | * | | * | * | * | * | * | * | * | | * | * | * | | * | * | * | * | * | * | * | * | |
| 135 Computer Systems Analysis | | | | | * | | | * | | | | * | * | | | | | | | * | | | | | * | * | * | |
| 136 Engineering Applications Programmer | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 137 Information Processing | | | | | * | | | | | | * | | | | | | | | | * | | | | * | | | | |
| 138 Microcomputer Business Applications | | | | | * | | | | | * | | * | | * | | | | | | | | | | | | | | |
| 139 Microcomputer Management | | | ± | * | | | * | | | | | | | | | | | | | | | | | | | * | | |
| 140 Microcomputer Support Analyst | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 141 Records: Information Management | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 142 Word Processing: Microcomputer Applications | | | | | | | | | | | | | | | | | | | | * | | | | | | * | | |
| 143 **Business: Marketing, Sales** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 144 Business: Sales | * | | | | | | | | | | | | | * | | | | | | | | | | | | | | |
| 145 Insurance | | | | | | | | | | | | | | | * | | | | | | | | | | | | | |
| 146 Marketing | ± | | ∓ | * | * | * | * | * | * | * | * | * | * | * | * | * | ± | ± | | * | * | * | | * | * | * | | |
| 147 Parts Management & Merchandising | | | | | * | | | | | | | | | | * | | | | | | | | | | | | | |
| 148 Physical Distribution | | | | | * | | | | | * | | | | | | | | | | | | | | | | | | |
| 149 Retail Marketing: Fashion / Home Furnishings | | | | | * | | | * | | | * | | | | | | | | | | | * | | * | * | * | | |
| 150 Sales & Merchandising / Recreational Sales / Technical Sales | | | | | | | | | | * | | | | | | * | | | | | | | | * | | | * | |
| 151 **Business: Secretarial** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152 Court Reporting | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 153 Dicta-Typist / General / Medical | ± | | ± | ∓ | * | | | * | | * | | | | | | * | ± | ± | | * | | | | * | * | * | * | |
| 154 Receptionist (Executive) Tques | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 155 Secretarial Arts, Bilingual | ± | | | * | | | | | | | | | | | | * | ± | ∓ | | | | | ± | | * | | | |
| 156 Secretarial Arts, Executive | | | | * | | | | | | | | | | | | | | | | | | | | | | | | |
| 157 Secretarial Arts, General / Executive / Procedural / Administrative | * | * | ± | ∓ | * | * | * | * | * | * | * | * | * | * | * | * | ± | ± | | * | | | | * | * | * | * | |
| 158 Secretarial Arts, Legal | * | | ± | * | * | | * | * | * | * | * | * | * | * | * | | ± | ± | | * | * | | * | * | * | * | * | |
| 159 Secretarial Arts, Legal / Word Processing Operator / Procedures & Admin | * | | | * | * | | | * | * | * | | | | | | | ± | ± | | * | | | | * | * | * | * | |
| 160 Secretarial Arts, Medical / Medical Tn | * | | ± | * | * | | * | * | * | * | * | * | | * | * | | ± | ± | | * | * | | | | * | * | * | |
| 161 Secretarial Arts, Office Automation | | | | | | | | | | | | | | | | | | | | | * | | | | | * | | |
| 162 Secretarial Arts, Steno-Typist / Word Processing Correspondence Spec | | | | * | * | | | * | | * | | * | | | | * | ± | | | | | | | | * | | | |
| 163 Secretarial Arts, Technical – Eng / Scientific / Educ | | | | | | | | * | | | | | | | | | | | | | | | | | | | | |
| 164 Secretarial Science | | | ± | | | | | | * | | | | | | | | ± | ± | | | | | | * | | | | |
| 165 Stenographer | * | * | | * | | | | | | | | | | | | | | | | | * | * | | | | | | |
| 166 **Communications** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 Advertising, Creative & / or Business / Management | ± | | | | * | | | * | | | * | * | | * | * | | | | | * | | | | * | * | * | | |
| 168 Animation / Illustration | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 169 Book Editing & Design | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 170 Broadcasting, Radio | | | | * | | | | | * | | | * | | * | * | | | | | | | | | | | | | |
| 171 Broadcasting, Radio & Television | ± | | | | * | * | * | | | | | | | | | * | | | | | | | | | * | | | |
| 172 Broadcasting, Television | | | | * | | | | | * | | | | | * | * | | | | | | | | | | | | | |
| 173 Communication Arts / Organizational | | | A | | * | | | | | | | | * | | | | | | | | | | | | | | | |
| 174 Communications | | | A | | | | | | | | | | | | | | | | | | | | | | | | | |
| 175 Film Production / Cinematography | | | | | | | * | | | | | * | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 176 | Graphic Communications | | | | * | | | | | | | | | | | | | | | | | | | | | | | * | |
| 177 | Human Relations | | | | | * | | | | | | | | | | | * | | | | | | | | | | | | |
| 178 | Journalism, Photo | | | | | | | | | | | | | | * | | | | | | | | | | | | | | |
| 179 | Journalism, Print / Broadcast / General | *̲ | | * | * | * | * | | * | * | | | * | * | * | * | * | | | | * | | | | | | * | | |
| 180 | Media Arts | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 181 | Nature Interpreter | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 182 | Photographic Arts / Merchandising | | | | | | | | | * | | | * | | | | | | | | | | | | | | * | | |
| 183 | Photography | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 184 | Public Relations, Creative & /or Business | * | | | | * | | | * | | | | * | | | | | | | | | | | | * | | | | |
| 185 | Radio & Television Writing | | | | | * | | | | | | | | | | | | | | | | | | | | | * | | |
| 186 | Telecommunications Management | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 187 | Writer, Technical | * | | | | | | | * | | | | | | | | | | | | | | | | | | | | |
| 188 | **Community Services** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 189 | Activation Co-ordinator | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 190 | Applied Social Researcher | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 191 | Arena / Ski Area Management | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 192 | Behavioural Science / Mental Health Worker | | | | | * | | | | * | | | | | | | | | | | | * | | *̄ | | | | | |
| 193 | Child Care Worker / Child Services | *̲ | | *̲ | | * | | * | | * | * | | * | | | * | | *̄ | | | * | * | * | | * | | | | |
| 194 | Coaching Tques | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 195 | Correctional Worker / Community Worker | *̲ | | *̲ | | * | | | | | * | | * | | | | | | | | | * | | | | | * | * | |
| 196 | Counsellor: Employment | | | | | | | | | | | | | | | | | | | | | | | | | | | * | |
| 197 | Counsellor: Special Care / Residential / Rehab / Workshop Rehab | | | | | * | | | | | | | * | | | | | | | | | | | | | | | | |
| 198 | Developmental Services Worker | *̲ | | *̲ | | * | | * | | * | | * | * | | * | | | *̲ | | | * | | * | | * | | | | |
| 199 | Early Childhood Education / Day Care Worker | *̲ | * | *̲ | * | * | * | * | * | * | * | * | * | * | * | * | *̄ | *̲ | | | * | * | | | * | * | * | * | |
| 200 | Early Childhood Education / Resource Teacher (Post-Basic) | | | | | * | * | | | | * | * | * | * | | | | | | | * | * | | | | * | | | |
| 201 | Educational Assistant | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 202 | Firefighter: Emergency Duties & Rescue | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 203 | Fitness Instructor | | | | | | | | | * | * | | | | | | | | | | | | | | | | | | |
| 204 | Human Services Counsellor / Management | | | | | * | | | | | * | | | | | | | | | | | | | | | | * | | |
| 205 | Human Services: Family Worker (Post-Basic) | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 206 | Indian Economic Development | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 207 | Infant / Toddler Care & Education Tques (Post-Basic) | | | | | | | | | | | | | * | | | * | | | | | | | | * | | | | |
| 208 | Law & Security Administration / Customs | *̲ | | *̲ | | | * | * | | * | | * | * | * | * | * | * | | | | * | | | | | * | * | * | |
| 209 | Municipal Planning & Development Tn | | | | | | | | | | | | | | | * | | | | | | | | | | | | | |
| 210 | Native Child & Family Worker | | | * | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 211 | Nursery Aide / Family Day Care | | | | | | | | | | * | | | * | | | | | | | | | | | | | | | |
| 212 | Ontario Band Social Services Administrator | | | | | | | | | | | | | | | | | | | | | | | | | | | * | |
| 213 | Ontario Native Education (Alcoholism & Drug Abuse Worker) | | | | | | | | | | | | | | | | | * | | | | | | | | | | | |
| 214 | Ontario Native Education (Recreation Leadership Trg) | | | | | | | | | | | | | | | | | * | | | | | | | | | | | |
| 215 | Ontario Native Education (Social Service Worker / Business Admin) | | | | | | | | | | | | | | | | | * | | | | | | | | | | | |
| 216 | Outdoor Recreation Tn / Golf Course Tn | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 217 | Parks Operation & Services | | | | | | | | | | | | | * | | | | | | | | | | | | * | | | |
| 218 | Piano Tn | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 219 | Protective Security | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | Recreation / Facilities Management / Administration / Leadership | *̲ | | * | * | * | * | * | | * | | * | * | | * | * | | | | | | | | | | * | | * | |

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| 221 | Sign Language Interpreter / Communicator | | | | | | | | | | | | | | | | | | | | * | | | | | | * | | |
| 222 | Social Services Worker | *̲ | | *̲ | | * | * | * | | * | | | * | * | * | * | * | *̲ | | | | | | | | * | * | * | |
| 223 | Sports Administration | | | | | | | | * | | | | | | | | | | | | | | | | | | | | |
| 224 | Working With Families (Post-Basic) | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| **225** | **Food, Hospitality & Tourism** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | Baking Tques | * | | | | | | | | | * | | | ⊛ | | | | | | | | | | | | | | | |
| 227 | Convention Management | | | | | * | | | | | | | | | | | | | | | | | | | | | | * | |
| 228 | Cook | * | | *̲ | | | | | * | | | | | | | | | | | | | | | | * | | | | |
| 229 | Flight Services | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 230 | Food Service Mgt / Supervision / Culinary Mgt / Beverages / Chef (Pre-Emp) | | | | * | * | * | * | * | | * | * | * | | | * | | | *̿ | | * | | | | * | | * | * | |
| 231 | Home Economics / Management / Dietary Services | | | | | * | | | | | | | | | | | | | | | | | | | | | | * | |
| 232 | Hospitality Administration & Services / Travel | *̲ | | | | * | | | | | | | | | | | | | | | * | | | | | | | * | |
| 233 | Hotel / Motel / Restaurant Management, Operation | *̲ | * | | *̿ | * | | * | | * | * | * | * | | * | | * | | *̿ | | | | | | * | | * | | |
| 234 | Retail Meat Cutting | * | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 235 | Tourism Marketing / Management | | | | | * | | | | | | * | | | | | | | | | | | | | * | | | * | |
| 236 | Tourism / Travel / Transportation | *̲ | | | | * | | * | | * | | | * | | | * | *̿ | | | | * | | | | | * | * | * | |
| **237** | **Health (Allied)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 238 | Ambulance & Emergency Care | *̲ | | *̿ | | * | * | | | * | | | * | | | | * | * | * | * | * | | | | * | | | | |
| 239 | Animal Health / Care | | | | | | | | | | | | | | | | | | | | * | * | | | | * | * | | |
| 240 | Chiropody | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 241 | Community & Health Services (Multidiscipline, Post-Basic)[2] | * | | * | | | | | * | * | | * | * | | * | * | * | | | | * | * | * | * | * | | | | |
| 242 | Dental Assistant / Hygienist | *̲ | | * | * | | | * | * | * | * | * | | | | | * | | | | * | | | | | * | | | |
| 243 | Dental Ty / Denture Therapy | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 244 | Funeral Services[3] | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 245 | Gerontology (Multidiscipline) | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 246 | Health Care Administration | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 247 | Health Records Tn / Administration | * | | | | | | | | * | | | | | | | * | | | | | | | | | | | | |
| 248 | Health Sciences (Preparatory) | | | | | | | | | * | * | | | | | | | | | | | | | | | | | | |
| 249 | Medical Laboratory Ty[4] | *̲ | | * | * | | | | * | * | | | | * | | * | | | | | * | * | | | | | | | |
| 250 | Non-Registered Nurse (Upgrading) | * | | | | * | | * | | * | * | | | | | * | | | | | | | | | | | | | |
| 251 | Nursing Assistant | *̲ | | * | * | * | * | | * | * | | * | * | | * | | | *̿ | | | * | * | * | | * | | * | | |
| 252 | Nursing Assistant (Post-RNA)[5] | * | | * | * | * | * | * | * | * | * | * | * | * | * | | * | *̿ | *̿ | | * | * | * | * | * | * | * | | |
| 253 | Nursing (Diploma)[6] | *̲ | * | *̿ | *̿ | * | * | * | * | * | * | * | * | * | * | * | * | *̿ | * | | * | * | * | *̲ | * | * | * | * | |
| 254 | Nursing (Post-RN) | * | | * | * | * | * | * | * | * | * | * | * | | | * | * | | | | * | * | * | * | * | * | | | |
| 255 | Nursing Refresher (RN) | * | | * | * | * | * | * | * | * | * | * | * | | * | * | * | | | | * | * | * | | * | * | * | | |
| 256 | Ophthalmic Assistant | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 257 | Optician, Dispensing | | | | | | | | | | | * | | | | | | | | | | | | | | | | | |
| 258 | Orthotic-Prosthetic Tn / Clinician (Post-Basic) | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 259 | Pharmacy Assistant | * | | | | | | | | | | | * | | | | | | | | * | | | | | | | | |
| 260 | Physiotherapy & Occupational Therapy | | | | | | | | | | | | | | | * | | | | | | | | | | | | | |
| 261 | Radiography (Medical) Ty | | | *̿ | | | | * | | * | | | | | | * | | | | | | | | | | | | | |
| 262 | Respiratory Ty | *̲ | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| **263** | **Instructional Resource Services** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | Audio-Visual / Instruction Materials / Equipment Tn | | | * | | | | | | * | | | * | | | | | | | | | | | | | * | | | |
| 265 | Educational Resources Tn | | | | | | | | | | | | | | | | * | | | | | | | | | | * | | |

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2. Various programs in clinical specializations are offered.
3. An internship of 15 months is required.
4. Program is offered in first year only at Durham College.
5. Courses in various specializations are offered.
6. Program length varies from 6 to 7 semesters.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 266 Library Tn | *= | | | | | | | | * | | | | | | * | * | | | | | | | | | * | * | | |
| **267 Technology / Technician Programs** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 268 Air-conditioning & Refrigeration Eng Tn | | | | | | | | | * | * | | * | | | | | | | | * | | | | | | | | * |
| 269 Air-conditioning & Refrigeration Eng Ty | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 270 Aquaculture Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 271 Architectural (Building) Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 272 Architectural (Design) Tn | | | | | * | | * | | | | | * | | | | | | | | | | | | | | | | |
| 273 Architectural (Design) Ty | | | | | * | | * | | | | | * | | | | | | | | | | | | | | | | |
| 274 Architectural (Drafting) Tn | | | | | * | | | | | * | | | | * | | | =* | | | | | | | * | | | | |
| 275 Architectural (Drafting) Ty | | | | | | | | | | | | | | | | | =* | | | | | | | * | | | | |
| 276 Architectural (Mechanical Systems) Tn | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 277 Architectural Tn | *= | | | | * | | | | * | * | | | | | * | | =* | | | | | | | * | | | | |
| 278 Architectural Ty | *= | | | | * | | | | * | * | | | | | * | | =* | | | * | | | | * | | | | |
| 279 Aviation (Air Carrier Management Operations) Ty | | | | | | | | | | | * | | | | | | | | | | | | | | | | | |
| 280 Aviation (Air Traffic Services) Ty | | | | | | | | | | | * | | | | | | | | | | | | | | | | | |
| 281 Aviation (Aircraft Maintenance) Tn | | | | * | * | | * | | | | | | | | | | | | | | | | | | | | | |
| 282 Aviation (Airport Management Operations) Ty | | | | | | | | | | | * | | | | | | | | | | | | | | | | | |
| 283 Aviation (Avionics Maintenance) Tn | | | | * | * | | | | | | | | | | | | | | | | | | | | | | | |
| 284 Aviation (Flight Instructor Training) Tques | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 285 Aviation (Flight Management) Tn | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 286 Aviation (Flight) Ty | | | | | | | * | | | | | | | | | | | | | | | | | * | * | | | |
| 287 Aviation (Manufacturing) Tn | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 288 Aviation (Manufacturing) Ty | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 289 Aviation Pilot (Rotary Wing) Tques | | | | * | | | | | | | | | | | | | | | | | | | | | | | | |
| 290 Aviation (Transportation & Industry) Eng Ty | | | | | | | | * | | | | | | | | | | | | | | | | | | | | |
| 291 Biological (Chemical) Tn | | | | | * | | | | | | | | | | | | | | | | | | | | * | | | |
| 292 Biological (Industrial Microbiology) Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 293 Biological (Microbiology / Electron Microscopy) Ty | | | | | * | | | | | | | | | | | | | | | | | | | | * | | | |
| 294 Biological (Research) Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 295 Biological (Sciences) Ty | | | | * | * | | | | | | | | | | | | | | | | | | | | | | | |
| 296 Building Operation Management Ty | | | * | | | | | | | | | | | | | | | | | | | | | | | | | |
| 297 Building Operations Tn | | | | | | | | | | | * | | | | | | | | | | | | | | | | | |
| 298 Cartographic (General) Tn | *= | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 299 Cartographic (Photogrammetric) Tn | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 Cartographic Tn | | | | | | | | | | | | | | | | | | | | | | | | | * | | | * |
| 301 Cartographic Ty | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 302 Chemical (Biochemical) Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 303 Chemical (Biochemical) Ty | *= | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 304 Chemical (Bioengineering) Ty | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 305 Chemical Eng Tn | | | * | | * | | | | | | | | * | * | | * | | | | | | | | | | | | |
| 306 Chemical Eng Ty | * | | *= | | * | | | * | | | | * | * | * | * | * | | | | * | | | | | | * | | |
| 307 Chemical (Environmental) Eng Ty | | | * | | | | | | | | | | | | | | | | | | | | | | | | | |
| 308 Chemical (Food & Drug) Ty | | | | | * | | | * | | | | | | | | | | | | | | | | | | | | |
| 309 Chemical (Industrial) Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 310 Chemical (Industrial) Eng Ty | | | | | * | | | | | | | * | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 311 Chemical (Industrial Hygiene) Eng Ty | | | | | | | | | | | | | * | | | | | | | | | | | | | | | |
| 312 Chemical (Laboratory) Tn | | | | | * | | | | | | | * | | | | | | | | | | | | | | * | | |
| 313 Chemical (Materials Science) Eng Ty | | | * | | | | | | | | | | | | | | | | | | | | | | | | | |
| 314 Chemical (Microbiology) Ty | | | | | * | | | | | | | * | | | | | | | | | | | | | | | | |
| 315 Chemical (Pharmaceutical) Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 316 Chemical (Polymer) Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 317 Chemical (Polymer) Eng Ty | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 318 Chemical Tn | | | | | * | | | | | | | | * | | * | | | | | | | | | | | | | |
| 319 Chemical Ty | * | | | | * | | | * | | | | | * | | | | | | | | | | | | * | | | |
| 320 Chemical (Waste Management) Eng Ty | | | * | | | | | | | | | | | | | | | | | | | | | | | | | |
| 321 Civil (Bldg Construction) Tn | | | | | * | | | | | | | | | | | | | | | | | | | * | | | | |
| 322 Civil (Construction) Eng Tn | | | | * | * | | | | | | | | | | * | | | | | | | | | * | | * | * | |
| 323 Civil (Drafting) Eng Tn | | | | | * | | | | * | | | | | | | | | | | | | | | | | | | |
| 324 Civil Eng Tn | | | * | | * | | | * | | * | * | * | | * | * | | | $\overline{*}$ | | | | | | * | * | | | |
| 325 Civil Eng Ty | | | * | | * | * | * | * | * | * | | * | | * | * | | | $\overline{*}$ | | * | * | | | * | * | | * | |
| 326 Civil (Marine) Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 327 Civil (Municipal) Eng Ty | | | | | * | | | | | | * | | | | | | | | | | | | | | | | | |
| 328 Civil (Public Works) Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 329 Civil (Public Works) Eng Ty | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 330 Civil (Resources) Eng Ty | | | | | | | | | | | * | | | | | | | | | | | | | | | | | |
| 331 Civil (Transportation) Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 332 Civil (Transportation) Eng Ty | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 333 Clockmaking | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 334 Computer (Computing Science) Ty | $\underline{*}$ | | | | * | | | | | | | | | | | | | * | | | | | | | | | | |
| 335 Computer (Data Processing) Tn | | | | | | | | | | | | | | | * | | | | | | | | | | | | | |
| 336 Computer Eng Tn | | | | | | | | * | | | | | | | | | | $\overline{*}$ | | | | | | | | | | |
| 337 Computer Eng Ty | * | | | | * | | | * | | | | * | | | | * | | $\overline{*}$ | | | * | | | * | * | | | |
| 338 Computer (Micro) Eng Ty | | | | | | | | | | | | | | | | | | | | | * | | * | | | | | |
| 339 Computer (Micro) Service Tn | | | | | | | | | | | | | | | | | | | | | | | | | | * | * | |
| 340 Computer (Process Control) Ty | | | | * | | | | | | | | | | | | | | | | | | | | | | | | |
| 341 Computer (Science) Ty | | | | | * | | | | | | | | | | | | | $\overline{*}$ | | | | | | | | * | | |
| 342 Computer Software Tn | | | | | | | | | | | | | | | | | | | | | * | | | | | | | |
| 343 Computer (Systems) Ty | * | | | | * | | | | | | | | | | * | | | $\overline{*}$ | | | | | | | | | | |
| 344 Computer-assisted Project Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 345 Concrete Products Tn | | | | | | | | | | | * | | | | | | | | | | | | | | | | | |
| 346 Construction (Carpentry) Tques | | | | | | * | | | * | | | | | | | | | | | | | | | | | | | |
| 347 Construction Eng Tn | * | | | | | | * | | | | | | | * | * | | | | | * | | | | | | | | |
| 348 Construction Eng Ty | * | | | | | * | | | | * | | | | | | * | | | | | | | | | | | | |
| 349 Construction (Heavy Equipment) Eng Tn | | | | | | | | | | | | | | | | | | | | | | | | | | * | | |
| 350 Construction (Management) Eng Tn | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 351 Construction (Management) Eng Ty | | | | | | | | | * | * | | | | | | | | | | | | | | | | | | |
| 352 Construction (Supervisor) Tn | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 353 Control (Systems) Eng Tn | | | | | * | | | | | | | | | | | | | | | * | | | | | | | | |
| 354 Control (Systems) Eng Ty | | | | | * | | | | * | | | | | | | | | | | | | | | | | | | |
| 355 Digital Electronics Eng Tn | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 356 Drafting Eng Tn | | | | | | * | | | | | | | | | | | | | | | | | | | | * | | |
| 357 Drafting Tn | | | | * | | | | | | * | | | | | | | | | | * | | | | | | | | |
| 358 Drafting Tques | | | | | | | | | | | | | * | | | | | | | | * | | | | | | | |
| 359 Electrical (Computer / Control) Eng Ty | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 360 Electrical (Control) Ty | | | | | * | | | | | | * | | | | * | | | | | | | | | | | | | |
| 361 Electrical (Controls) Eng Tn | | | | | | | | | | | | * | | | | | | | | | | | | | | | * | |
| 362 Electrical (Design) Eng Tn | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 363 Electrical (Electrical Power) Eng Ty | | | | | * | | | | | | | | | | | | | * | | | | | | | | | | |
| 364 Electrical Eng Tn | | | | | | | * | | * | * | * | | | | | * | *̄ | *̄ | | | | * | | * | | | * | |
| 365 Electrical Eng Ty | | | | | * | | | | * | * | | | | | | | | *̄ | | | | | | * | | | * | |
| 366 Electrical (Machinery & Apparatus) Tn | | | | | | * | | | | | | | | | | | | | | | | | | | | | | |
| 367 Electrical (Power) Eng Ty | | | | | * | | | | | | | | | | | * | | * | | | | * | | | | | | |
| 368 Electromechanical (Drafting) Eng Tn | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 369 Electromechanical (Hydraulics) Tn | | | | | | * | | | | | | | | | | | | | | | | | | | | | | |
| 370 Electromechanical (Precision Instruments) Eng Tn | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 371 Electromechanical (Robotics) Eng Tn | | | | * | | * | | * | | | | * | | | | | | | | * | | | | | | | * | |
| 372 Electromechanical (Robotics) Eng Ty | | | | | | | | | | | | * | | | | | | | | | | | | | | | * | |
| 373 Electronics (Acoustics) Eng Tn | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 374 Electronics (Avionics) Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | | | * | | | |
| 375 Electronics (Biomedical) Eng Tn | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 376 Electronics (Biomedical) Eng Ty | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 377 Electronics (Communications) Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | | | * | | | |
| 378 Electronics (Computer) Eng Tn | | | | | | | | * | | | | | | | | | | | | * | | | | | * | * | | |
| 379 Electronics (Computer) Eng Ty | | | | | * | | | * | | | | | | | * | | | | | | | | | | | | | |
| 380 Electronics (Computer Systems) Eng Ty | | | | | * | | | * | | | | | | | | | | | | | | | | | | | * | |
| 381 Electronics (Computer) Tn | | | | | | | | * | | | | | | | | | | | | * | | | | | | | | |
| 382 Electronics Eng Tn | *̲ | * | *̲ | * | * | * | * | * | * | * | * | * | | * | * | * | *̄ | *̄ | | * | * | | * | * | | * | * | |
| 383 Electronics Eng Ty | *̲ | | *̲ | | * | * | | * | * | * | * | * | * | * | * | * | | *̄ | | * | * | | * | * | * | * | | |
| 384 Electronics (Industrial) Tn | | | | | | * | | | | | | | | | | | | | | | | | | | | | | |
| 385 Electronics (Power & Control) Eng Ty | | | | | * | | | | | | | | | | | | | | | | | | | | * | | | |
| 386 Electronics (Robotics & Process Control) Tn | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 387 Electronics (Telecommunications) Eng Tn | | | | * | | | | | | | | | | | | | | | | | | * | | | | | | |
| 388 Electronics (Telecommunications) Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 389 Electronics (Telephone Systems) Eng Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | * | |
| 390 Electronics Tn[7] | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 391 Energy Systems / Conversion Eng Ty | | | | | | | | | | * | | | | | * | | | | | * | | | | | | | | |
| 392 Environmental Health Ty | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 393 Environmental Science Tn | | | | * | | | | | | | | | | | | | | | | | | | | | | | | |
| 394 Environmental Science Ty | | | | * | | | | | | | | | | | | | | | | | | | | | | | | |
| 395 Environmental Systems (Energy Management) Eng Ty | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 396 Fibre / Plastics Composites Eng Ty | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 397 Fire (Protection) Tn | * | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 398 Fire (Protection) Ty | * | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 399 Fluid Power Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 400 Fluid Power (Robotics) Eng Ty | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |

[7] Program length is 56 weeks; program is non-semestered.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 401 | Food (Drug) Ty | | | | | | | | * | | | | | | | | | | | | | | | | | | | | |
| 402 | Food (Industrial Processing) Tn | | | | * | | | | | | | | | | | | | | | | | | | | | | | | |
| 403 | Food Industry Tn | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 404 | Food (Service Management) Tn | | | | | | | | | | | | | | | | | | | | * | | | | | | | | |
| 405 | Forestry (Fish & Wildlife) Ty | | | | | | | | | | | | | | | | | | | | | | | | * | | | | * |
| 406 | Forestry (Parks & Recreation) Ty | | | | | | | | | | | | | | | | | | | | | | | | * | | | | * |
| 407 | Forestry Tn | | *̲ | | | | | | | | | | | | | | | | | | | | | | * | | | | * |
| 408 | Forestry Ty | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 409 | Furniture (Production & Design) Tn | | | | | | | | | | * | | | | | | | | | | * | | | | | | | | |
| 410 | Furniture (Renovation / Production) Tn | | | | | | * | | | | | | | | | | | | | | * | | | | | | | | |
| 411 | Geographical (Information Systems) Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 412 | Geological Eng Ty | | | * | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 413 | Geological (Geophysics) Eng Tn | | | * | | | | | | | | | | | | | | | | | | | | | | | | | |
| 414 | Geological (Geotechnics / Minerals / Terrain) Tn | | | * | | | | | | | | | | | | | | | | | | | | | * | | | | * |
| 415 | Geoscience (Data) Eng Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 416 | Geotechnical Ty | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 417 | Graphics (Printing) Tn | *̲ | | | | | * | | | | * | | | | | | | | | | | | | | * | | | | |
| 418 | Graphics (Printing) Ty | | | | | | | | | | * | | | | | | | | | | | | | | * | | | | |
| 419 | Horticultural Tn | | | | | | | | | | | | | | | | * | | | | * | | | | | | | | |
| 420 | Industrial Eng Tn | | | | | | | | | | | * | | | | * | * | | | | | | | | | | | * | |
| 421 | Industrial Eng Ty | * | | | | * | | | * | | | | | | | | | | | | * | | | | | | | * | |
| 422 | Industrial (Fire Prevention) Eng Tn | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 423 | Industrial (Laboratory) Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 424 | Industrial (Management) Eng Ty | | | | | | | | | | | | * | | | * | | | | | * | | | | | | | | |
| 425 | Industrial (Mechanical Maintenance) Tques | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 426 | Instrumentation Eng Tn | | | | | * | | * | | | | | | * | | | | | | | | | | | * | | | | |
| 427 | Instrumentation (Industrial) Eng Tn | * | | | * | * | | | | | * | | * | * | | * | | | | | | * | | | | | | | |
| 428 | Instrumentation (Industrial) Eng Ty | | | * | | | | | | | * | | | * | | | | | | | | * | | | | | | | |
| 429 | Instrumentation (Process Control) Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | * | | | | | |
| 430 | Instrumentation (Process, Measurement & Control) Eng Tn | | | | | * | | | | | | | | | | | | | | * | | | | | | | | | |
| 431 | Landscape Tn | | | | | | | | | | | | * | | | | | | | | * | | | | | | | | |
| 432 | Landscape Ty | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 433 | Manufacturing (Design) Eng Tn | | | | | | | | | | | | | | | | | | | | * | | | | | | | | |
| 434 | Manufacturing Eng Tn | | | | | | | | | * | | | * | | | | | | | | | | | | | | | | |
| 435 | Manufacturing Eng Ty | * | | | | * | | | | * | | | * | | | | * | | | | | | | | | * | | * | |
| 436 | Manufacturing (Numerical Control) Eng Tn | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 437 | Manufacturing (Wood Products) Tn | | | | | | * | | | | | | | | | | | | | | | | | | | | | | |
| 438 | Marine Eng Ty | | | | | | | | | | | * | | | | | | | | | | | | * | | | | | |
| 439 | Marine (Navigation) Ty | | | | | | | | | | | * | | | | | | | | | | | | | | | | | |
| 440 | Mechanical (Applied Machine Shop) Tques | | | | | | | | | | | | | | | | | | | | | | | | * | | | | |
| 441 | Mechanical (Automated Manufacturing) Eng Ty | | | | | | * | | | | | | | | | | | | | | | | | | | | | | |
| 442 | Mechanical (Automated Manufacturing) Tn | | | | | | | | * | | | | | | | | | | | | | | | | | | | | |
| 443 | Mechanical (Computer-assisted Design / Manufacturing) Eng Ty | | | | | * | * | | * | | | | | | | | | | | | | | | | | | | | |
| 444 | Mechanical (Computer-assisted Manufacturing) Eng Ty | | | | | * | * | | | | | | | | * | | | | | | | | | | | | | | |
| 445 | Mechanical (Design) Eng Tn | | | | | * | * | | | * | | | | | | | | | | | | | | | | | | | |

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| | Algonquin (Ottawa) | Algonquin (Pembroke) | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern (South Porcupine) | Northern (Kirkland Lake) | Northern (Haileybury) | St. Clair | St. Lawrence (Kingston) | St. Lawrence (Brockville) | St. Lawrence (Cornwall) | Sault | Seneca | Sheridan | Sir Sandford Fleming (Peterborough) | Sir Sandford Fleming (Lindsay) |
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| 446 Mechanical Drafting (Design) Eng Tn | | | | | | | | | | * | | * | | | | * | | | | | | | | | | | * | |
| 447 Mechanical (Drafting) Eng Tn | | | | | | * | | | | * | * | | * | | | | | | | | | | | * | | * | | |
| 448 Mechanical (Energy Management) Eng Ty | | | | | | | | | | | | | | | | | | | | * | | | | | | | | |
| 449 Mechanical Eng Tn | | | | | * | | * | * | | | | | | * | * | | | *̄ | | | | | | * | * | * | | |
| 450 Mechanical Eng Ty | *̲ | | | | * | | | * | | | * | | * | | * | * | | *̄ | | * | * | | * | * | * | * | | |
| 451 Mechanical (Fluid Power Automation) Eng Tn | | | | | | | | | | | | | | | * | | | | | | | | | | | | | |
| 452 Mechanical (Hydraulic & Pneumatic) Eng Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 453 Mechanical (Industrial) Eng Tn | | | | | * | | | | | | * | | * | | | | * | | | | | | | * | | | | |
| 454 Mechanical (Industrial) Eng Ty | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 455 Mechanical (Machine Shop Operations) Tn | | | | * | | | | | | | | | | | | | | | | | | | | * | | | | |
| 456 Mechanical (Mine Maintenance) Eng Tn | | | | | | | | | | | | | | | | | | | * | | | | | | | | | |
| 457 Mechanical (Mine Maintenance) Eng Ty | | | | | | | | | | | | | | | | | | | * | | | | | | | | | |
| 458 Mechanical (Mine Ventilation) Tn | | | | | | | | | | | | | | | | | | | | | | | | * | | | | |
| 459 Mechanical (Mobile Equipment) Eng Ty | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 460 Mechanical (Nuclear) Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 461 Mechanical (Numerical Control) Eng Tn | | | | * | | * | | | | | | * | | | | | | | | * | | | | | | | * | |
| 462 Mechanical (Tool & Die) Eng Tn | | | | | * | | | | | * | | * | | | | | | | | | | | | | | | * | |
| 463 Mechanical (Tool Design) Eng Ty | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 464 Mechanical (Toolmaking) Eng Tn | *̄ | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 465 Metallurgical Eng Tn | | | * | | | | | | * | | | | | | | | | | | | | | | | | | * | |
| 466 Metallurgical Eng Ty | | | * | | | | | | | | | | | | * | | | | | | | | | | | | * | |
| 467 Minerals Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 468 Mining Eng Tn | | | * | | | | | | | | | | | | | | | | * | | | | | | | | | |
| 469 Mining Eng Ty | | | * | | | | | | | | | | | | | | | | * | | | | | | | | | |
| 470 Model / Pattern Maker Tn | | | | | | | | | | | | | | | | | | | | * | | | | | | | | |
| 471 Motive Power (Automotive) Tn | | | | | * | | | | * | | | | | | | | | | | * | | | | | | | | |
| 472 Motive Power (Diesel) Tn | | | | | | | | | * | | | | | | | | | | | | | | | * | | | | |
| 473 Motive Power (Heavy Equipment Operation) Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 474 Motive Power (Heavy Equipment Operation) Tques | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 475 Motive Power (Parts Merchandising) Tques | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 476 Motive Power (Service Management) Tn | | | | | * | | | | | | | | | | | | | | | | | | | | | | | |
| 477 Motive Power Tn | | | | | * | | | | | | | | | | | | | | | * | | | | | | | | |
| 478 Natural Resources (Law Enforcement) Ty | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 479 Pest Control Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 480 Piano Tn | | | | | | | | | | * | | | | | | | | | | | | | | | | | | |
| 481 Quality Eng Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | * | |
| 482 Quality Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | | | | * | |
| 483 Resources (Air / Water) Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | * | | | | |
| 484 Resources (Drilling) Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | | * |
| 485 Resources Eng Tn | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 486 Resources Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 487 Resources (Environmental) Tn | | | | | | | | | | | | | | * | | | | | | | | | | | | | | |
| 488 Resources (Marine) Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 489 Safety Eng Ty | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 490 Science (Laboratory – Air / Water) Ty | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |

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| | | Algonquin (Ottawa) | Algonquin (Pembroke) | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern (South Porcupine) | Northern (Kirkland Lake) | Northern (Haileybury) | St. Clair | St. Lawrence (Kingston) | St. Lawrence (Brockville) | St. Lawrence (Cornwall) | Sault | Seneca | Sheridan | Sir Sandford Fleming (Peterborough) | Sir Sandford Fleming (Lindsay) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 491 | Science (Laboratory) Tn | | | | | | | | | | | | | | | | | | | | | | | | | | | * | |
| 492 | Science (Laboratory) Ty | | | | | | | | | * | | | | | | | | | | | | | | | | | | | |
| 493 | Science (Photographic) Tn | ± | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 494 | Science (Pulp & Paper) Eng Ty | | | | | | | | | | | | | | | | | | | | | | | | * | | | | |
| 495 | Small Craft & Marine Tn | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 496 | Small Craft & Marine Ty | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 497 | Solar Energy Ty | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 498 | Stationary (Power) Eng Ty | | | * | | | | | | | | | | | | | | | | | | | | | | | | | |
| 499 | Stationary (Power / Plant) Eng Tn | | | | | | | | | * | * | | | | | | | | | | * | | | | | | | | |
| 500 | Survey (Aerial) Tn | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 501 | Survey (Hydrographic) Ty | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 502 | Survey & Mapping Ty | * | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 503 | Survey Tn | * | | | | | | * | | * | | * | * | | * | | * | ∓ | | | | | | | | | | | |
| 504 | Survey Ty | * | | | | | | | | | | | * | | | | | ∓ | | | | | | | | | | | |
| 505 | Textile Management Ty | | | | | | | | | | | | | | | * | | | | | | | | | | | | | |
| 506 | Tooling (Plastic) Tn | | | | | | | | | | | | | | | | | | | | * | | | | | | | | |
| 507 | Tooling (Toolmaker) Tn | ± | | | | * | | | | | | | | | | | | | | | * | | | | | | | | |
| 508 | Transportation (Planning) Ty | | | | | | | | | | | | | | | * | | | | | | | | | | | | | |
| 509 | Tree Maintenance (Urban) Tn | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |
| 510 | Underwater Skills Tques | | | | | | | | | | | | | | | | | | | | | | | | | * | | | |
| 511 | Videotex (Creation / Marketing / Systems) Ty | | | | | | | | | | | | | | * | | | | | | | | | | | | | | |
| 512 | Welding Eng Tn | | | | | | * | | | | * | | | | | | | | ∓ | | | | | | | | | | |
| 513 | Welding Eng Ty | | | | | | | | | | | | | | | | | | ∓ | | | | | | | | | | |
| 514 | Welding (Fabrication) Tn | | * | | | | * | | | | | | | | | | | | | | * | | | | | | | | |
| 515 | Welding Specialist Eng Tques | | | | | | | | | | * | | | | | | | | | | | | | | * | | | | |
| 516 | Welding Tques | | | | | | | * | | | | | | | | | | | | | | | | | | | | | |
| 517 | Yachting Studies Ty | | | | | | | | | | | | * | | | | | | | | | | | | | | | | |

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# Certificate Programs†

| | | weeks max. | Algonquin | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern | St. Clair | St. Lawrence | Sault | Seneca | Sheridan | Sir Sandford Fleming |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **518** | **Academic Improvement** | | | | | | | | | | | | | | | | | | | | | | | |
| 519 | Basic Training for Skill Development (BTSD) – Level I | 36 | *̲ | *̲ | * | | * | * | * | * | * | | | | * | * | | * | * | * | *̲ | | * | * |
| 520 | Basic Training for Skill Development (BTSD) – Level II | 24 | *̲ | *̲ | * | | * | * | * | * | * | * | * | * | * | *̲ | * | *̲ | * | * | *̲ | * | * | * |
| 521 | Basic Training for Skill Development (BTSD) – Level III | 32 | *̲ | *̲ | * | * | * | * | * | * | * | * | * | * | * | *̲ | * | *̲ | * | * | *̲ | * | * | * |
| 522 | Basic Training for Skill Development (BTSD) – Level IV | 32 | *̲ | *̲ | * | * | * | * | * | * | * | * | * | * | * | *̲ | * | *̲ | * | * | *̲ | * | * | * |
| 523 | English as a Second Language | 24 | *̲ | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 524 | English as a Second Language (Advanced) | 16 | *̲ | * | | | | | | * | | | * | | | | | | | * | | * | | |
| 525 | English for Provisional Tradesmen | 24 | | | | * | | | | | * | | | | | * | | | | | | | | |
| 526 | English for Science & High Technology | 12 | | | | | | * | | | * | | | | | | | | | | | * | | |
| 527 | French as a Second Language | 24 | * | * | | | | | | | | | | | | | | | | * | * | | | |
| 528 | Preparation for Certificate of Qualification | 10 | | | | * | | | | | | | | | | * | | ⊙ | | | | | | ⊙ |
| **529** | **Artistic, Literary, Performing Arts & Related** | | | | | | | | | | | | | | | | | | | | | | | |
| 530 | Commercial Art / Graphic Computer Typesetting | 40 | | | | | | | | | * | | | | | * | | | | | | | | |
| 531 | Cosmetic Retailing | 17 | | | | * | | | | | | | | | | | | | | | | | | |
| 532 | Floral Design (Basic) | 16 | * | * | | | | | | | | | | | | | | | | | | | | |
| 533 | Jewellery: Precious Metal Grinder & Polisher | 48 | | | | | | | | | * | | | | | | | | | | | | | |
| 534 | Screen Process Printing | 40 | | | | * | | | | | * | | | | | | | | | | | | | |
| 535 | Sign Writing | 40 | | * | | | | | | | * | | | | | | | | | | | | | |
| **536** | **Clerical & Related** | | | | | | | | | | | | | | | | | | | | | | | |
| 537 | Accountancy Assistant | 40 | | *̲ | * | | | | | * | * | ⊙ | * | * | | | | * | | | | * | * | |
| 538 | Automated Office Skills | 40 | | | *̲ | | | | * | * | | | | | | | | *̄ | | | | | | |
| 539 | Bookkeeper-Typist (Bookkeeping Clerk) | 35 | * | *̲ | * | * | | | * | | * | * | * | | | * | | *̄ | * | | * | * | * | |
| 540 | Business Fundamentals | 52 | | | | | | | | | | | | | | | | | | | * | | | |
| 541 | Business Machines | 12 | | | | | | | | | | | | | | ⊙ | | * | | | | | | |
| 542 | Business Machines & Bookkeeping / Business & Commerce | 40 | | * | | * | | | | | | | | | | ⊙ | | * | | | * | | | |
| 543 | Clerk-Typist | 40 | * | *̲ | * | * | | | | | * | | * | * | | * | | * | | | | * | * | |
| 544 | Commercial Clerical | 40 | *̄ | *̲ | | * | | | | | | | | | | ⊙ | | * | | | | | | |
| 545 | Commercial (Refresher) | 20 | * | *̲ | * | * | | * | | * | * | * | * | * | | * | | * | | | * | * | * | * |
| 546 | Computer Literacy: Business & Industry | 15 | | | | | | | | | * | | | | | * | | | * | * | | | | |
| 547 | Computer Operator | 22 | * | | | | | | | | | | | | | | | | | | | | | |
| 548 | Computer Programmer (Numerical Control) | 10 | | | | | | | | | | | | | | | | | | | | * | | |
| 549 | Computer-assisted Design Operator | 10 | | | | | | | | | | | | | | | | | | | | * | | |
| 550 | Data Entry Operator | 24 | | * | | | | | | | | | | | | | | | | | | | | |
| 551 | Hotel Front Office & Reception | 12 | * | * | | | | | | | * | | | | | | | | | | | | | |
| 552 | Integrated Office Systems | 34 | | | | | | | | | | | | | | | | | | | | * | * | |
| 553 | Inventory Control, Auto Parts / Production Planning | 24 | | * | * | * | | | | | | | | | | * | | ⊙ | | | * | | | |
| 554 | Legal Secretary | 52 | | | | * | | * | | | | | | | | | | | | | | * | | |
| 555 | Medical Secretary | 52 | | | | * | | * | | | | | | | | | | | | | | * | | |
| 556 | Medical Terminology | 14 | | | | * | | | | | | | | | | | | | | | | | | |
| 557 | Microcomputer: Business Applications | 50 | | * | | | | | * | | | | * | | * | * | | | | | | | * | |
| 558 | Microcomputer Operator | 24 | * | | | | | | | | * | | | | | * | | | | | * | | * | |
| 559 | Office Information Administration | 52 | | | | * | | | | | | | | | | | | | * | | | | | |
| 560 | Office Procedures / Retail Sales | 34 | | | | | | | | | | | | | | | | | | | * | | | * |
| 561 | Office Systems Operations | 32 | | | | | * | | | * | | * | * | | * | * | | | | * | * | * | | |
| 562 | Receptionist-Typist | 40 | | | * | * | | | | | | | | | | | | * | | | | * | * | |

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†Certificate programs are of 52 weeks' duration or less. Graduates of certain 52-week programs receive diplomas. Call the college for details.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 563 | Secretary – Machine Transcription (Dicta-Typist) | 35 | * | * | | * | | | | | * | | * | * | | ⊙ | | * | * | | | * | * | |
| 564 | Secretary – Shorthand (Stenographer, General) | 40 | * | * | $\overline{*}$ | * | | | | | * | | | | | * | | * | | | * | * | * | |
| 565 | Stenographer | 40 | | | | | | | | | | | | | | | | | | * | | | | |
| 566 | Systems Analyst (Junior) | 30 | | | | | | | | | * | | | | | | | | * | | | | | |
| 567 | Teller / Cashier | 12 | | $\overline{*}$ | | | | | | | | | | | | | | | | | | ⊙ | ⊙ | |
| 568 | Travel Counsellor | 32 | | * | | | | | | | | | | | | | | | | | | | | |
| 569 | Typing (Refresher) | 12 | * | * | | * | | * | | | | | | | | ⊙ | | * | | | * | * | * | * |
| 570 | Word Processing | 30 | * | $\underline{*}$ | | | | | | * | * | * | | * | | * | | ⊙ | * | $\overline{\underline{*}}$ | * | * | * | * |
| **571** | **Community Services & Related** | | | | | | | | | | | | | | | | | | | | | | | |
| 572 | Community Improver: Leather & Beadwork | 36 | | * | | | | | | | | | | | | | | | | | * | | | |
| 573 | Community Improver: Log Cabin Construction | 15 | | * | | | | | | | | | | | | | | | | | | | | |
| 574 | Family Care Worker | 26 | | | | | | | | | | | | | | | | | | | | * | * | |
| 575 | Home Day Care | 23 | * | | | | | | | | | | | | | | | | | * | | | | |
| 576 | Home Support (Visiting Homemaker) | 12 | * | | * | | * | | * | | * | * | | * | * | * | * | * | * | * | * | | * | |
| 577 | Nanny | 16 | | | | | * | | | | | | | | | | | | | | | | | |
| 578 | Native Teaching for Natives | 3 | | | | | | | | | | | | | | | | | | | * | | | |
| 579 | Nursery Aide | 16 | | | | | | | | | * | | | | | | | | | | | | | |
| 580 | Ontario Native Education (Community Improver) | 40 | | | | | | | | | | | | | | | | ⊙ | | | | | | |
| 581 | Redirection Through Education | 26 | | | * | | | | | | * | | | | | | | | | | | * | * | |
| 582 | Support Worker for the Physically Disabled | 8 | | | | | | | | | | | | | | | | | * | | | | | |
| **583** | **Construction Trades** | | | | | | | | | | | | | | | | | | | | | | | |
| 584 | Back-Hoe Operator | 4 | | | | | | | | | | | | | | | | | | | | | * | |
| 585 | Bricklayer (Preapprenticeship) | 48 | | | * | | | | | | * | | | | | | | | | | | | | |
| 586 | Cabinetmaking (Basic Fundamentals) | 48 | * | * | * | | | | | * | | * | * | | * | | | | * | | * | | | |
| 587 | Carpenter, Basic | 20 | | | * | | * | | | | | | | | | | | | | * | * | | | |
| 588 | Carpenter, General | 40 | | * | * | | * | | * | * | * | * | | * | | * | * | $\underline{*}$ | | * | * | | | |
| 589 | Construction Trades Helper | 16 | | | | | | | * | | | | | ⊙ | | * | | * | | * | | | | |
| 590 | Decompression (Hyperbaric) Chamber Operator | 1 | | | | | | | | | | | | | | | | | | | | ⊙ | | |
| 591 | Dry-Wall (Taper & Boarder) | 8 | | | | | | | * | | | * | | * | | | | | | | * | | | |
| 592 | Environmental Horticulture I & II[8] | 20 / 20 | | | | | | | | | | | | | | | | | | * | * | ⊙ | * | |
| 593 | Heating, Refrigeration & Air-conditioning | 48 | $\underline{*}$ | | | | | | | | | | | | | * | | | | | | | | |
| 594 | Industrial Assembler | 3 | | | | | | | | | | | | | | | | | | * | * | | | |
| 595 | Industrial Electronics for Journeymen | 13 | | | | | | | | | * | | | | | | | * | | | | | | |
| 596 | Industrial Maintenance Mechanic: Packaging / Assembly / Repair / Controls | 48 | | * | | | * | | * | * | | * | * | * | * | * | | * | * | | * | * | * | |
| 597 | Masonry | 20 | | * | | | | | | | * | * | | ⊙ | | | | | | * | | | | |
| 598 | Natural Gas Servicer / Gas Fitter | 26 | | * | * | | | | | | * | | | | | * | | * | | | | | | |
| 599 | Oil Burner Service | 20 | | * | * | | | | | | * | | | | | | | | | | | | | |
| 600 | Painting & Decorating | 16 | | | | | | | * | | * | | | ⊙ | | | | | | | | | | |
| 601 | Pipeline Welding | 8 | | ⊙ | | | | | | | | | | | | | | | | | * | | * | |
| 602 | Plastic Floor Covering Installer | 10 | | | * | | | | | | | | | | | | | | | | | | | |
| 603 | Refractories Training (Bricklaying) | 3 | | | | | | | * | | | | | | | | | | | | | | | |
| 604 | Refrigeration & Air-conditioning | 34 | * | | | | | | | * | * | | | | | | | | * | | | | | |
| 605 | Residential Building Renovation Helper | 20 | | | | | | | | | | | | | | | | | | | | | | * |
| 606 | Residential Siding Installer | 8 | | | | | | | | | | | | * | | | | | | | | | | |
| 607 | Underwater Skills | 34 | | | | | | | | | | | | | | | | | | | | * | | |

8. Only part I is possible at Seneca College.

**Legend**

* : Program is offered at the college indicated. Call the college for details.
*̲ : Program is also offered in French.
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Tn : Technician
Tques : Techniques
Ty : Technology

| No. | Program | weeks max. | Algonquin | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern | St. Clair | St. Lawrence | Sault | Seneca | Sheridan | Sir Sandford Fleming |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 608 | **Disabled** | | | | | | | | | | | | | | | | | | | | | | | |
| 609 | Head Start for the Hearing Impaired | 20 | * | | | | | | | | * | | | | | | | | | | | | | |
| 610 | Training for the Handicapped Adult | 40 | | * | | | | | | | * | * | * | | | * | | | | | | | | |
| 611 | **Farming, Agriculture, Horticulture, Animal Care, Fishing, Floriculture** | | | | | | | | | | | | | | | | | | | | | | | |
| 612 | Dairy Herd Worker | 39 | | | | | | | | * | | | | | | | | | | | | | | |
| 613 | Farm Equipment Mechanic (Pre-Employment) | 40 | | | | | | | | * | | | | | | | | | | | | | | |
| 614 | Farrier | 15 | | | | | | | | | | | | | | | | | | | | * | | |
| 615 | Floral Design | 9 + 16 | | | | | | | | | | | | | | | | | | | | * | | |
| 616 | Forest Nursery Worker | 12 | | | | | | | | | | | | | | | | | | | * | | | * |
| 617 | Fur Harvesting | 12 | | | | | | | | | | | | | | | | * | | | | | | |
| 618 | Lumber Grader (Hardwood) | 16 | | | | | | | | | | | | | | | | | | | | | | * |
| 619 | Management of Farm Business | 20 | | | * | | | | | | | * | | | | | | | | | | | | * |
| 620 | Tree Maintenance (Urban) | 16 | | | | | | | | | | | | | | | | | | | | | | * |
| 621 | **Health (Allied)** | | | | | | | | | | | | | | | | | | | | | | | |
| 622 | Health Care Aide | 16 | * | *̅ | * | * | * | | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 623 | Hospital Orderly Training | 20 | * | | | | | | | | | | | | | | | | | | | | | |
| 624 | Sign Language Studies | 21 | | | | | | | | | | | | | | | | | * | | | | | |
| 625 | Training Programs for Students With Learning Disabilities | 52 | | | | | | | | | | | | | * | | | | | | | | | |
| 626 | **Machining & Related** | | | | | | | | | | | | | | | | | | | | | | | |
| 627 | Business Equipment Servicing | 48 | * | | | | | | | | | | | | | | | | | | | | | |
| 628 | Fabricating & Welding (Metal) | 48 | * | * | | | | | * | | | | | | | * | | | * | | * | | | |
| 629 | Forestry Filer | 40 | | | | | | | | | | | | | | | | *̅ | | | | | | |
| 630 | Forestry Millwright | 48 | | | | | | | | | | | | | | | | *̲ | | | | | | |
| 631 | Industrial Mechanic / Millwright | 40 | | | | | | * | | * | | * | | | | | | | * | * | | | * | |
| 632 | Industrial Mechanic / Millwright (Advanced) | 8 | | | | | | | | | | | | | | | | | | * | | | | |
| 633 | Lathe Operator | 12 | | | | | | | | | | | | | * | | | | | | | | | |
| 634 | Machine Shop | 40 | * | * | * | * | | | * | * | * | * | * | * | * | * | * | | * | * | * | * | * | * |
| 635 | Machine-Tool Setter Operator[9] | 48 | | | | | * | | | | | | | | | | | | | | | | | |
| 636 | Machinist, General / Automatic | 40 | | | | | | | | * | | * | * | | | | * | | * | * | | | * | |
| 637 | Machinist – Industrial Craftsperson | 32 | | | | | | | | * | | | | | | | | | | | | | | |
| 638 | Millwright (Refresher) | 8 | | * | | | | | | | | | | | | | | | | | | | | |
| 639 | Mould Making | 48 | | | | | | | * | * | | | | | | | | | * | | | | | |
| 640 | Numerical Control – Machine-Tool Programmer | 10 | | | | | | | * | | | | | | * | * | | | * | * | | | * | |
| 641 | Numerical Control – Machine-Tool Setter Operator | 40 | | | | | * | | * | | | | | | * | | | | | | * | | * | |
| 642 | Numerical Control Machining | 40 | | | | | | | | | | * | | | | | * | | | | | | | |
| 643 | Photocopier Maintenance & Repair | 48 | | | | | | | | | | | | | | | | | | | | * | | |
| 644 | Plastics Mechanic | 10 | | | | | | | | | | | | | | | | | | | | | | * |
| 645 | Small Engine (Snow Machines) Mechanic | 10 | | | | | | | | | | | | | | | | * | | | | | | |
| 646 | Tool & Die Making | 40 | | | | | | | * | * | | * | | | | * | | | | | | | | |
| 647 | Welding Fitter | 40 | | *̲ | * | | * | * | * | * | * | * | * | * | * | * | *̲ | * | * | * | * | | * | * |
| 648 | Welding Fitter (Refresher) | 20 | | * | | | | | * | | * | | * | * | | * | | | | | * | | * | |
| 649 | Welding, High-Pressure Pipe (Upgrading / Refresher / Advanced) | 10 | | | | | | * | | | * | | * | | | | | | | | * | | | |
| 650 | Welding, Layout Fitting | 48 | | | | | | | | | | | | | | | | | | | * | | ⊙ | |
| 651 | Welding Operator | 20 | | * | | | | | * | | * | | * | * | * | * | | | | * | * | | * | |

9. Six separate courses include: Engine and Turret Lathes, Milling and Grinding Machines, Horizontal and Vertical Boring Machines.

**Legend**

| | |
|---|---|
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| Tn | : Technician |
| Tques | : Techniques |
| Ty | : Technology |

| | | weeks max. | Algonquin | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern | St. Clair | St. Lawrence | Sault | Seneca | Sheridan | Sir Sandford Fleming |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **652** | **Managerial, Administrative & Related** | | | | | | | | | | | | | | | | | | | | | | | |
| 653 | Native Economic Development & Small Business | 52 | | | | | | | | | | | | | | | | | | | | | | * |
| 654 | Ontario Native Education (Indian Band Management) I, II, III & IV[10] | 12 | | | | | | * | | | | | | * | | * | | ⊙ | | | * | | | |
| 655 | Self-Employment Skills | 20 | | | | | | | | | | * | | | | | | | | | | | | |
| 656 | Small Business Management | 36 | * | | * | * | | | | | | | | | | * | | ⊙ | | | * | | | |
| **657** | **Material Handling & Related** | | | | | | | | | | | | | | | | | | | | | | | |
| 658 | Heavy Equipment Operator (Multiple Machines) | 16 | | | * | | | | | | | | | * | | | | | | | | | * | |
| 659 | Loader Bulldozer Operator | 4 | | | | | | | | | | | | | | | | | | | | | * | |
| 660 | Sideboom Operator | 5 | | | | | | | | | | | | | | | | | | | | | * | |
| 661 | Tower & Mobile Crane Operator | 8 | | | | | | | | | | | | | | | | | | | | | ⊙ | |
| **662** | **Mining & Quarrying** | | | | | | | | | | | | | | | | | | | | | | | |
| 663 | Diamond Drill Operator (Surface & Underground) | 20 | | | | | | | | | | | | | | | | *̲ | | | | | | |
| 664 | Drilling & Blasting | 13 | | * | | | | | | | | | | | | | | | | | | | | * |
| 665 | Mining Assistant | 34 | | | | | | | | | | | | | | | | * | | | | | | |
| **666** | **Natural Sciences, Engineering & Mathematics** | | | | | | | | | | | | | | | | | | | | | | | |
| 667 | Blueprint Reading: Aircraft | 4 | | | | | | | | | | | | | | | | | | | | * | | |
| 668 | Blueprint Reading: Construction / Mechanical | 8 | | * | * | | | | | | | | | | | * | | | | | | | * | |
| 669 | Computer Programmer (Numerical Control) | 10 | | | | | | | | | | | | | | | | | | | | * | | |
| 670 | Computer Software | 52 | | | | | | | | | | | | | | | | | | * | | | | |
| 671 | Computer-assisted Project Eng | 18 | | | | | | | | | | | | | | | | | | | | * | | |
| 672 | Design Process | 52 | | | | | | | | | * | | | | | | | | | | | | | |
| 673 | Drafting | 40 | | * | | | | | * | | * | | * | | | * | | | | * | | * | | |
| 674 | Drafting, Basic Engineering | 52 | | | | | | | | | | | | | | | | | * | | | | | |
| 675 | Drafting, Mechanical / Electrical | 40 | | | | | | * | | | | | | | | | | | | | | | | |
| 676 | Drafting, Mechanical Engineering | 52 | | | | | | | | | * | | | | | | | | | | | | | |
| 677 | Drafting, Process Piping | 40 | | * | | | | | | | * | | | * | | * | | | | * | | | | |
| 678 | Drafting (Refresher) | 20 | | | | | | | | | | | * | | | | | | | | | | * | |
| 679 | Electrical Drafting | 40 | | | | * | | | | | | | | | | | | | | | | | | |
| 680 | Electronic Data Processing I, II & III | 8 | | | | * | | | | | | | | | | | | | | | | | | |
| 681 | Electronics (Videotape Recorder) | 48 | | | | | | | | | * | | | | | | | | | | | | | |
| 682 | Geographical Information Systems | 52 | | | | | | | | | | | | | | | | | | | | | | * |
| 683 | Geoscience Data Tn | 52 | | | | | | | | | | | | | | | | | | | | | | * |
| 684 | Introduction to Computer-assisted Drafting & Design | 10 | | | | | | | | | * | | | | | | | | | | | | * | |
| 685 | Numerical Control Machine Programmer | 52 | | | * | | | | | | | | * | | ⊙ | * | | | * | | | | | |
| 686 | Prospecting Tques | 14 | | | | | | | | | | | | | | | | ⊙ | | | | | | |
| 687 | Quality Control | 40 | | | | * | | | | | | | | | | * | | | | | | | | |
| 688 | Survey Assistant | 34 | | | | | | | | | | | | | | | | ⊙ | | | | | | |
| **689** | **Processing** | | | | | | | | | | | | | | | | | | | | | | | |
| 690 | Baking Tques | 40 | * | | * | | | | | * | * | | | | | | | | | | | | | |
| 691 | Butcher & Meat Cutter | 24 | | | * | | | | | | | | | | | | | | | | | | | |
| 692 | Forestry Cutters & Skidders | 8 | | | | | | | | | | | | | | | | *̄ | | | | | | |
| 693 | Forestry, Mechanical Harvesting | 15 | | | | | | | | | | | | | | | | * | | | | | | |
| 694 | Forestry Sawyer & Millwright | 48 | | | | | | | | | | | | | | | | * | | | | | | ⊙ |
| 695 | Logging & Small Sawmill Operator | 24 | | | * | | | | | | | | | | | | | | | | | | | * |
| 696 | Process Operations | 32 | | | | | | | | | | | | * | | * | | | | | | | | |

[10] Only part IV is available at Confederation College, Mohawk College and Sault College.

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| No. | Program | weeks max. | Algonquin | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern | St. Clair | St. Lawrence | Sault | Seneca | Sheridan | Sir Sandford Fleming |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 697 | Process Operations, Steel-related Industries | 32 | | | | | | | | | | | | | | * | | | | | | | | |
| 698 | Retail Meat Cutting | 20 | * | | * | | | | | | * | | | | | | | | | | | | | |
| 699 | **Product Fabricating, Assembling & Repairing** | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | Aerospace Manufacturing (Aircraft Assembly) | 36 | | | | * | | | | | | | | | | | | | | | | | | |
| 701 | Aircraft Maintenance Tn | 52 | | | | * | | | | | | | | | | | | | | | | | | |
| 702 | Apparel Design & Pattern Drafting | 32 | | | | * | | | | | * | | | | | | | | | | | | | |
| 703 | Appliance Servicing | 40 | | * | | | * | | | | * | | | * | | | | * | | | | | | |
| 704 | Automotive Body Repairer | 20 | | | * | | | | | | | | | | | | | | | | | | | |
| 705 | Avionics | 52 | | | | * | | | | | | | | | | | | | | | | | | |
| 706 | Business Equipment Servicing | 48 | * | | | | | | | | * | | | | | | | | | | | | | |
| 707 | Camera Repair Mechanic | 40 | | | * | | | | | | | | | | | | | | | | | | | |
| 708 | Computer-assisted Design / Manufacturing Tques | 10 | | | | | | | * | | | | | | | * | | | | | | | | |
| 709 | Courseware Design & Production | 34 | | | | | | | | | | | | | | | | | | | | | * | |
| 710 | Custom Dressmaking & Alterations | 28 | | | | | | | | | * | | | | | | | | | | | | | |
| 711 | Diesel Electric Mechanic | 40 | | | | * | | | | | | | | | | | | | | | | | | |
| 712 | Diesel Engine Mechanic | 20 | | | | * | | | | | | | | | | | | | | | | | | |
| 713 | Electrical Instrumentation Mechanic | 40 | | | | | | | | | | | | | | | | | | ⊙ | | | | |
| 714 | Electrical (Machinery & Apparatus) Tn | 52 | | | | | | | | | | * | | | | | | | | | | | | |
| 715 | Electromechanical (Maintenance) Tn | 52 | | | | | | | | | | | | | | | | | | * | | | | |
| 716 | Electronic Assembly & Repair | 21 | | | | | | | | | | | | | | * | | | | | | | | |
| 717 | Electronic Equipment Repairer | 52 | | | | | | | | | | | | | | | | | * | | | | | |
| 718 | Electronic Systems Tester | 52 | * | | | | | | | | | | | | | | | | | | | | | |
| 719 | Electronics, Automated Office Systems Servicing | 52 | | | | | | | | | * | | | | | | | | | | | | | |
| 720 | Electronics, Basic | 36 | | | | | | | * | | | | | | | * | | | | | | | | |
| 721 | Electronics, Basic Skill | 36 | | | | | | * | | | * | | | | | | | | | | | | | |
| 722 | Electronics, Cable Service & Maintenance | 48 | | | | | | | | | | | | | | | | | | | | * | | |
| 723 | Electronics, Digital Equipment & Systems | 48 | | * | ⊙ | | | | * | | * | | * | | | | | | | * | | * | | |
| 724 | Electronics, Equipment Assembly | 18 | | | | | | | | | | | | | * | | | | | * | | | * | |
| 725 | Electronics, General Servicing | 48 | * | | | | | * | * | * | | | | | | | | | | | | | * | |
| 726 | Electronics, Industrial Control | 48 | | | | | | | | | * | | | | | | | * | | | | | | |
| 727 | Electronics, Manufacturing Assembly | 48 | * | | | | | | | | | | | | | | | | | | | | | |
| 728 | Electronics, Mobile Radio | 48 | | | | | | | * | | | | * | | | | | | | | | * | | |
| 729 | Electronics, Radio / Hi-Fi / Television Servicing | 48 | | | | | | | * | | * | | * | | * | | | | * | | | * | | |
| 730 | Electronics Tn (Accelerated) | 36 | | | | | | | | | | * | | | | | | | | | | | | |
| 731 | Fitter, Structural Steel Plate Work (Preapprenticeship) | 40 | | * | | | | | | | | | | | | | | | | | | | | |
| 732 | Fluid Power Control Mechanic | 40 | | | * | * | | | | | | | | | | | | | | | | | | |
| 733 | Fork Lift Vehicle Mechanic | 40 | | | | * | | | * | | | | | | | | | | | | | | | |
| 734 | Fundamentals of Robot Maintenance & Repair | 28 | | | | | | | * | | | | | | | * | | | | | | | | |
| 735 | Fur Business & Manufacturing Tques / Leather | 40 | | | | | | | | | * | | | | | | | | | | | | | |
| 736 | Furniture Upholstery & Manufacturing | 40 | | | | * | | | | | | | | | | | | * | | | | | | |
| 737 | Furniture Upholstery & Repair | 40 | | | | | | | | * | * | | | | | | | * | | | | | | |
| 738 | Furniture, Woodworking & Finishing | 32 | | | | | | | | | * | | | | | | | | | | | | | |
| 739 | Heating / Tn / Services | 52 | * | | * | | | | | | * | | | | | | | | | | | | | |
| 740 | Heavy Duty Equipment Mechanic | 40 | | *̲ | * | * | | * | | * | | | | | | | | *̲ | | | * | | * | |
| 741 | Heavy Equipment Field Servicing | 12 | | | | | | | | | | | | | | | | | | | | | ⊙ | |

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| | | weeks max. | Algonquin | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern | St. Clair | St. Lawrence | Sault | Seneca | Sheridan | Sir Sandford Fleming |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 742 | Industrial Electrician | 45 | | | | | | | | * | | | | | | | | | | | | | | |
| 743 | Industrial Electronic Controls – Journeyman | 13 | | | | | | | | | * | | | | | | | * | | | * | | | |
| 744 | Industrial Instrumentation | 40 | | * | | | | * | | * | * | | | * | | * | | | | | * | | * | |
| 745 | Industrial Maintenance Mechanic | 48 | | *̲ | | | * | | * | | | * | * | * | * | * | * | * | * | | * | * | * | |
| 746 | Industrial Power Sewing | 8 | | | | | | | | | * | | | | | | | | | | | | | |
| 747 | Industrial Power Sewing Machine Mechanic | 40 | | | | | | | | | * | | | | | | | | | | | | | |
| 748 | Instrumentation for Plumbers & Steamfitters | 20 | | | | | | | | | | | | | | | | | | * | | | | |
| 749 | Marine & Small-Powered Equipment Mechanic | 40 | | * | * | * | | * | | * | | * | * | * | | | | * | | | * | | | |
| 750 | Marine & Snow Vehicle Maintenance | 16 | | | | * | | | | | | | | * | | | | * | | | ⊙ | | | |
| 751 | Microcomputer Maintenance | 40 | | | | | | | | | * | | | | | | | | | | * | | | |
| 752 | Motor Vehicle Mechanic | 40 | | | | * | | | | | | | | * | | | | | | | | | | |
| 753 | Motor Vehicle Mechanic (Advanced Electronics) | 13 | | | | | | | | | | | | | | * | | | | | | | | |
| 754 | Motorcycle Repair | 32 | | | | * | | | | | | | | | | | | | | | * | | | |
| 755 | Moulding & Set-up Mechanic: Plastics | 20 | | | | | | | | | * | | | | | | | | | | | | | |
| 756 | Plastics Processing Equipment Mechanic | 40 | | | | | | | | | * | | | | | | | | | | | | | |
| 757 | Precision Electronic Assembly | 24 | * | | | | | | | | | | | | | * | | | | | | | | |
| 758 | Precision Instrument Mechanic | 48 | | | | | | | | | | | * | | | | | | | | | | | |
| 759 | Precision Metal Fabrication | 48 | * | | | | | | * | | | | | | | | | | | | | | | |
| 760 | Sawmill Tn | 48 | | | * | | | | | | | | | | | | | | | | | | | |
| 761 | Steel Fitter | 20 | | | | | | | | | * | | | | | | | | | | | | | |
| 762 | Toolmaking | 37 | | | | | | | | | | * | | | | | * | | * | | | | | |
| 763 | **Sales** | | | | | | | | | | | | | | | | | | | | | | | |
| 764 | Automotive Merchandising | 34 | | | | * | | | | | | | | | | * | | | * | | | | | |
| 765 | Inventory Control | 20 | | | * | * | | | | | | | | | | * | | | | | * | | | |
| 766 | Retail Merchandising | 16 | | | | * | | | | | | | | | | | | | | | * | | | |
| 767 | Retail Merchandising (Supervisor) | 40 | | | | ⊙ | | | | | | | | | | | | | | | | | | |
| 768 | Retail Sales | 12 | * | | | | | | | | | | * | | | | | | | | | | | |
| 769 | **Service** | | | | | | | | | | | | | | | | | | | | | | | |
| 770 | Audio Equipment Systems (Electronics) | 48 | | | | | | | | | * | | | | | | | | | | | | | |
| 771 | Bartending | 15 | *̲ | * | | | | | | | * | | | | | | | | | | | | | |
| 772 | Building Custodian | 14 | | * | | | | | | | | | | | | | | ⊙ | | | | | | |
| 773 | Building Maintenance | 20 | | | | | | | * | | | | | | | | | | | | * | | | |
| 774 | Building Systems Operator (Mechanical) | 40 | | * | | | | | | | * | | | | | | | | | | | | | |
| 775 | Dining-Room Service | 10 | | * | * | | | | | | * | | | | ⊙ | | | ⊙ | | | * | | | |
| 776 | Food & Beverage Service | 15 | | | | | | | | * | | | | | | | * | * | | | | | | |
| 777 | Food Preparation, Advanced | 20 | * | *̲ | * | | | * | * | * | * | * | | | | * | * | * | * | * | * | | | |
| 778 | Food Preparation, Basic | 20 | | *̲ | * | | | * | * | * | * | * | | | ⊙ | * | * | ⊙ | * | | * | | | |
| 779 | Food Service & Bartending | 20 | | | | | | * | | | * | * | | | | | | * | | | | | | |
| 780 | Hairdressing | 16 | | | | | | | | | | | | | | | | | | * | * | | | |
| 781 | Hairstyling | 48 | | | | | | | | | | | | | | | | | * | * | * | | | |
| 782 | Hairstyling for Barbers | 16 | | | | | | | | | | | | | | | | | | | * | | | |
| 783 | Hospitality / Administration & Food Service | 34 | | | | | | | | | | | | | | | | * | | | | | | |
| 784 | Hospitality – Modified Accommodations & Food Service | 20 | | | | | | | | | | | | | | | | | | | * | | | |
| 785 | Hotel, Front Office & Operation | 12 | * | * | | | | | | | * | | | | | | | | | | | | | |
| 786 | Tour Guide Service | 16 | | | | | | | | | | | | | | | | * | | | | * | | |

**Legend**

★ : Program is offered at the college indicated. Call the college for details.
★̲ : Program is also offered in French.
★̄ : Program is bilingual.
⊙ : Program is possible.
A : Program is offered in French only
Tn : Technician
Tques : Techniques
Ty : Technology

| | weeks max. | Algonquin | Cambrian | Canadore | Centennial | Conestoga | Confederation | Durham | Fanshawe | George Brown | Georgian | Humber | Lambton | Loyalist | Mohawk | Niagara | Northern | St. Clair | St. Lawrence | Sault | Seneca | Sheridan | Sir Sandford Fleming |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **787 Transport Equipment Operating** | | | | | | | | | | | | | | | | | | | | | | | |
| 788 Marine Emergency Duties | 3 | | | | | | | | | | ★ | | | | | | | | | | | | |
| 789 Marine Engineer | 28 | | | | | | | | | | ★ | | | | | ★ | | | | | | | |
| 790 Marine Navigator | 28 | | | | | | ★ | | | | ★ | | | | | ★ | | | | | | | |
| 791 School Bus Driver | 2 | | ★ | | | | | | | | | | | | | | | | | | | | |
| 792 Tractor-Trailer Driver | 4 | | ★ | | | | | | | ★ | | | | | | | ★̄ | | | | | | |
| 793 Truck Driver | 3 | | | | | | | | | ★ | | | | | | | | | | | | ⊙ | |
| **794 Other Crafts & Equipment Operating** | | | | | | | | | | | | | | | | | | | | | | | |
| 795 Duffle Coat Production | 20 | | | ★ | | | | | | | | | | | | | | | | | | | |
| 796 Graphic Arts Camera Operator | 40 | | | | | | | | | | | | | | ★ | | | | | | | | |
| 797 Knitting Machine Operator | 10 | | ★ | | | | | | | | | | | | | | | | | | | | |
| 798 Lithography & Screen Printing – Layout & Stripping | 40 | | | | | | | | | | | | | | ★ | | | | | | | | |
| 799 Offset Printing | 40 | | | ★ | | | | | | ★ | | | | | ★ | | | | | | | | |
| 800 Screen Process Printing | 40 | | | | | | | | | ★ | | | | | | | | | | | | | |
| **801 Unclassified** | | | | | | | | | | | | | | | | | | | | | | | |
| 802 Basic Employment Training (BET) | 26 | ★ | ★ | ★ | ★ | ★ | ★ | | ★ | ★ | ★ | | | ⊙ | ★ | | ★ | ★ | ★ | | ★ | ★ | |
| 803 Career Planning | 8 | ★ | ★̲ | ★̲ | | | ★ | | | | ★ | ★̲ | | | | | ★̲ | | ★̄ | ★ | | ★ | |
| 804 Career Planning for Native People | 4 | | | | | | ★ | | | | | | | | | | | | | ★ | | | |
| 805 Employment Skills Enrichment | 32 | | | | | | | | | | | | | | | | | ★ | | | | | |
| 806 Entry Into Careers in New Technology | 16 | ★ | | | | | | | | | | | | ★ | | | | ★ | ★ | ★ | | | |
| 807 Focus for Change | 16 | ★ | ★̲ | | | ★ | ★ | ★ | | | ★ | | | | ★ | | | | | | | ★ | |
| 808 Industrial Orientation | 9 | | ★ | | | | | | ★ | ★ | | | | ★ | ★ | | | | ★ | | | | |
| 809 Introduction to Non-Traditional Occupations | 8 | ★ | ★̲ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | | ★ | ★ | ★ | | ⊙̲ | | ★ | ★ | ★ | ★ | |
| 810 Job Readiness (BJRT) | 12 + 52 | ★ | ★̲ | ★ | ★ | ★ | ★ | | ★ | ★ | | ★ | ★ | ★ | ★ | | ★ | ★ | | ★ | ★ | ★ | |
| 811 Job-Search Skills for Women | 3 | | ★ | | ★ | | ★ | | | | | | | | | | ⊙ | | | ★ | | | |
| 812 Laboratory Tn | 40 | | | | | | | | | | | | | ★ | | | | | | | | | |
| 813 Life Skills / Coach | 6 | ★ | ★ | | ★ | | | | | | | | | | | | ⊙ | | ★ | ★ | | | |
| 814 Ontario Native Education (Industrial Orientation) | 9 | | | | | | | | | | | | | | ★ | | | | | | | | |
| 815 Ontario Native Education (Job Readiness) | 20 | | ★ | | | | | | | ★ | | | ★ | | | | | | | | | | |
| 816 Orientation to Employment | 12 | | | | | | ★ | | | | | | | | ★ | | ⊙ | | | ★ | | | |
| 817 People Into Trades & Technology | 20 | ★̲ | ★̲ | | ★ | | ★ | ★ | | ★ | ★ | | ★ | ★ | ★ | | ★ | | | ★ | ★ | ★ | |
| 818 Pre-Trades Training for Women | 12 | ★ | ★ | | ★ | | | | | | | | ⊙ | | | | | | | | | | |
| 819 Women Into Trades & Technology | 18 | ★ | ★ | ★̲ | | | ★ | ★ | ★ | ★ | ★ | | ★ | ★ | ★ | | ★ | | ★ | ★ | ★ | ★ | ★ |
| 820 Work Skills & Attitude Training | 12 | | | | ★ | | | | | | | | | | | | | ★ | | | | | |
| 821 Working Skills for Women | 52 | | | ★ | | | | | | ★ | | | | | | | | | | | ★ | | |

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*Tn, Electromechanical (Drafting) Eng 368*
*Tn, Electromechanical (Hydraulics) 369*
*Tn, Electromechanical (Maintenance) 715*
*Tn, Electromechanical (Precision Instruments) Eng 370*
*Tn, Electromechanical (Robotics) Eng 371*
*Tn, Electronics 390*
*Tn, Electronics (Accelerated) 730*
*Tn, Electronics (Acoustics) Eng 373*
*Tn, Electronics (Avionics) Eng 374*
*Tn, Electronics (Biomedical) Eng 375*
*Tn, Electronics (Communications) Eng 377*
*Tn, Electronics (Computer) 381*
*Tn, Electronics (Computer) Eng 378*
*Tn, Electronics Eng 382*
*Tn, Electronics (Industrial) 384*
*Tn, Electronics (Robotics & Process Control) 386*
*Tn, Electronics (Telecommunications) Eng 387*
*Tn, Electronics (Telephone Systems) Eng 389*
*Tn, Environmental Science 393*
*Tn, Equipment / Audio-Visual / Instruction Materials 264*
*Tn, Fire (Protection) 397*
*Tn, Fluid Power Eng 399*
*Tn, Food (Industrial Processing) 402*
*Tn, Food Industry 403*
*Tn, Food (Service Management) 404*
*Tn, Forestry 407*
*Tn, Furniture (Production & Design) 409*
*Tn, Furniture (Renovation / Production) 410*
*Tn, Geographical (Information Systems) 411*
*Tn, Geological (Geophysics) Eng 413*
*Tn, Geological (Geotechnics / Minerals / Terrain) 414*
*Tn, Geoscience Data 683*
*Tn, Geoscience (Data) Eng 415*
*Tn, Golf Course / Outdoor Recreation Tn 216*
*Tn, Graphics (Printing) 417*
*Tn, Health Records / Administration 247*
*Tn / Heating / Services 739*
*Tn, Horticultural 419*
*Tn, Industrial Eng 420*
*Tn, Industrial (Fire Prevention) Eng 422*
*Tn, Instrumentation Eng 426*
*Tn, Instrumentation (Industrial) Eng 427*
*Tn, Instrumentation (Process Control) Eng 429*
*Tn, Instrumentation (Process, Measurement & Control) Eng 430*
*Tn, Laboratory 812*
*Tn, Landscape 431*
*Tn, Library 266*
*Tn, Maintenance 48*
*Tn, Manufacturing (Design) Eng 433*
*Tn, Manufacturing Eng 434*
*Tn, Manufacturing (Numerical Control) Eng 436*
*Tn, Manufacturing (Wood Products) 437*
*Tn, Mechanical (Automated Manufacturing) 442*
*Tn, Mechanical (Design) Eng 445*
*Tn, Mechanical Drafting (Design) Eng 446*
*Tn, Mechanical (Drafting) Eng 447*
*Tn, Mechanical Eng 449*
*Tn, Mechanical (Fluid Power Automation) Eng 451*
*Tn, Mechanical (Hydraulic & Pneumatic) Eng 452*
*Tn, Mechanical (Industrial) Eng 453*
*Tn, Mechanical (Machine Shop Operations) 455*
*Tn, Mechanical (Mine Maintenance) Eng 456*
*Tn, Mechanical (Mine Ventilation) 458*
*Tn, Mechanical (Numerical Control) Eng 461*
*Tn, Mechanical (Tool & Die) Eng 462*
*Tn, Mechanical (Toolmaking) Eng 464*
*Tn, Medical / Secretarial Arts, Medical 160*
*Tn, Metallurgical Eng 465*
*Tn, Mining Eng 468*
*Tn, Model / Pattern Maker 470*
*Tn, Motive Power 477*
*Tn, Motive Power (Automotive) 471*
*Tn, Motive Power (Diesel) 472*
*Tn, Motive Power (Heavy Equipment Operation) 473*
*Tn, Motive Power (Service Management) 476*
*Tn, Municipal Planning & Development 209*
*Tn, Outdoor Recreation / Golf Course Tn 216*
*Tn, Pest Control 479*
*Tn, Piano 480*
*Tn, Piano 218*
*Tn, Quality Eng 481*
*Tn, Radio & Television 34*
*Tn, Resources (Drilling) 484*
*Tn, Resources Eng 485*
*Tn, Resources (Environmental) 487*
*Tn, Sawmill 760*
*Tn, Science (Laboratory) 491*
*Tn, Science (Photographic) 493*
*Tn, Small Craft & Marine 495*
*Tn, Stationary (Power / Plant) Eng 499*
*Tn, Survey 503*
*Tn, Survey (Aerial) 500*
*Tn, Tooling (Plastic) 506*
*Tn, Tooling (Toolmaker) 507*
*Tn, Tree Maintenance (Urban) 509*
*Tn, Welding Eng 512*
*Tn, Welding (Fabrication) 514*
*Toddler / Infant Care & Education Tques (Post-Basic) 207*

*(Tool Design) Mechanical Eng Ty 463*
**Tool & Die Maker 40**
**Tool & Die Making 646**
*(Tool & Die) Mechanical Eng Tn 462*
**Tooling (Plastic) Tn 506**
**Tooling (Toolmaker) Tn 507**
*(Toolmaker) Tooling Tn 507*
**Toolmaking 762**
*(Toolmaking) Mechanical Eng Tn 464*
**Tour Guide Service 786**
**Tourism Marketing / Management 235**
**Tourism / Travel / Transportation 236**
**Tower & Mobile Crane Operator 661**
*Tques, Art Conservation 60*
*Tques, Aviation (Flight Instructor Training) 284*
*Tques, Aviation Pilot (Rotary Wing) 289*
*Tques, Baking 226*
*Tques, Baking 690*
*Tques, Coaching 194*
*Tques, Computer-assisted Design / Manufacturing 708*
*Tques, Construction (Carpentry) 346*
*Tques, Drafting 358*
*Tques, Fur Business & Manufacturing / Leather 735*
*Tques, Industrial (Mechanical Maintenance) 425*
*Tques, Infant / Toddler Care & Education (Post-Basic) 207*
*Tques, Mechanical (Applied Machine Shop) 440*
*Tques, Motive Power (Heavy Equipment Operation) 474*
*Tques, Motive Power (Parts Merchandising) 475*
*Tques, Prospecting 686*
*Tques, Receptionist (Executive) 154*
*Tques, Translation (Secretarial) 129*
*Tques, Underwater Skills 510*
*Tques, Welding 516*
*Tques, Welding Specialist Eng 515*
**Tractor-Trailer Driver 792**
*Trades & Technology, People Into 817*
*Trades & Technology, Women Into 819*
*Trailer / Truck Repairer 42*
*Training, Basic Employment (BET) 802*
**Training for the Handicapped Adult 610**
*Training, Pre-Trades, for Women 818*
**Training Programs for Students With Learning Disabilities 625**
**Translation Tques (Secretarial) 129**
**Transmission Mechanic 41**
**Transport Equipment Operating 787**
*(Transportation) Civil Eng Tn 331*
*(Transportation) Civil Eng Ty 332*
*(Transportation & Industry) Aviation Eng Ty 290*
**Transportation (Planning) Ty 508**
*Transportation / Tourism / Travel 236*
**Travel Counsellor 588**
*Travel / Hospitality Administration & Services 232*
*Travel / Tourism / Transportation 236*
**Tree Maintenance (Urban) 620**
**Tree Maintenance (Urban) Tn 509**
*(Truck / Coach) Motor Vehicle Mechanic – Map 40 29*
**Truck & Coach Repairer 54**
**Truck Driver 793**
**Truck / Trailer Repairer 42**
*Ty, Air-conditioning & Refrigeration Eng 269*
*Ty, Architectural 278*
*Ty, Architectural (Design) 273*
*Ty, Architectural (Drafting) 275*
*Ty, Aviation (Air Carrier Management Operations) 279*
*Ty, Aviation (Air Traffic Services) 280*
*Ty, Aviation (Airport Management Operations) 282*
*Ty, Aviation (Flight) 286*
*Ty, Aviation (Manufacturing) 288*
*Ty, Aviation (Transportation & Industry) Eng 290*
*Ty, Biological (Microbiology / Electron Microscopy) 293*
*Ty, Biological (Research) 294*
*Ty, Biological (Sciences) 295*
*Ty, Building Operation Management 296*
*Ty, Business: Information / Communication Systems 107*
*Ty, Cartographic 301*
*Ty, Chemical 319*
*Ty, Chemical (Biochemical) 303*
*Ty, Chemical (Bioengineering) 304*
*Ty, Chemical Eng 306*
*Ty, Chemical (Environmental) Eng 307*
*Ty, Chemical (Food & Drug) 308*
*Ty, Chemical (Industrial) Eng 310*
*Ty, Chemical (Industrial Hygiene) Eng 311*
*Ty, Chemical (Materials Science) Eng 313*
*Ty, Chemical (Microbiology) 314*
*Ty, Chemical (Pharmaceutical) 315*
*Ty, Chemical (Polymer) Eng 317*
*Ty, Chemical (Waste Management) Eng 320*
*Ty, Civil Eng 325*
*Ty, Civil (Marine) Eng 326*
*Ty, Civil (Municipal) Eng 327*
*Ty, Civil (Public Works) Eng 329*
*Ty, Civil (Resources) Eng 330*
*Ty, Civil (Transportation) Eng 332*
*Ty, Computer-assisted Project Eng 344*
*Ty, Computer (Computing Science) 334*
*Ty, Computer Eng 337*
*Ty, Computer (Micro) Eng 338*
*Ty, Computer (Process Control) 340*
*Ty, Computer (Science) 341*
*Ty, Computer (Systems) 343*
*Ty, Construction Eng 348*
*Ty, Construction (Management) Eng 351*
*Ty, Control (Systems) Eng 354*
*Ty, Dental / Denture Therapy 243*
*Ty, Electrical (Computer / Control) Eng 359*
*Ty, Electrical (Control) 360*
*Ty, Electrical (Electrical Power) Eng 363*
*Ty, Electrical Eng 365*
*Ty, Electrical (Power) Eng 367*
*Ty, Electromechanical (Robotics) Eng 372*
*Ty, Electronics (Biomedical) Eng 376*
*Ty, Electronics (Computer) Eng 379*
*Ty, Electronics (Computer Systems) Eng 380*
*Ty, Electronics Eng 383*
*Ty, Electronics (Power & Control) Eng 385*
*Ty, Electronics (Telecommunications) Eng 388*
*Ty, Energy Systems / Conversion Eng 391*
*Ty, Environmental Health 392*
*Ty, Environmental Science 394*
*Ty, Environmental Systems (Energy Management) Eng 395*
*Ty, Fibre / Plastics Composites Eng 396*
*Ty, Fire (Protection) 398*
*Ty, Fluid Power (Robotics) Eng 400*
*Ty, Food (Drug) 401*
*Ty, Forestry 408*
*Ty, Forestry (Fish & Wildlife) 405*
*Ty, Forestry (Parks & Recreation) 406*
*Ty, Geological Eng 412*
*Ty, Geotechnical 416*
*Ty, Graphics (Printing) 418*
*Ty, Industrial Eng 421*
*Ty, Industrial (Laboratory) 423*
*Ty, Industrial (Management) Eng 424*
*Ty, Instrumentation (Industrial) Eng 428*
*Ty, Landscape 432*
*Ty & Management, Packaging 123*
*Ty, Manufacturing Eng 435*
*Ty, Marine Eng 436*
*Ty, Marine (Navigation) 439*
*Ty, Mechanical (Automated Manufacturing) Eng 441*
*Ty, Mechanical (Computer-assisted Design / Manufacturing) Eng 443*
*Ty, Mechanical (Computer-assisted Manufacturing) Eng 444*
*Ty, Mechanical (Energy Management) Eng 448*
*Ty, Mechanical Eng 450*
*Ty, Mechanical (Industrial) Eng 454*
*Ty, Mechanical (Mine Maintenance) Eng 457*
*Ty, Mechanical (Mobile Equipment) Eng 459*
*Ty, Mechanical (Nuclear) Eng 460*
*Ty, Mechanical (Tool Design) Eng 463*
*Ty, Medical Laboratory 249*
*Ty, Metallurgical Eng 466*
*Ty, Minerals Eng 467*
*Ty, Mining Eng 469*
*Ty, Museum 121*
*Ty, Natural Resources (Law Enforcement) 478*
*Ty, Quality Eng 482*
*Ty, Radiography (Medical) 261*
*Ty, Resources (Air / Water) Eng 483*
*Ty, Resources Eng 486*
*Ty, Resources (Marine) Eng 488*
*Ty, Respiratory 262*
*Ty, Safety Eng 489*
*Ty, Science (Laboratory) 492*
*Ty, Science (Laboratory – Air / Water) 490*
*Ty, Science (Pulp & Paper) Eng 494*
*Ty, Small Craft & Marine 496*
*Ty, Solar Energy 497*
*Ty, Stationary (Power) Eng 498*
*Ty, Survey 504*
*Ty, Survey (Hydrographic) 501*
*Ty, Survey & Mapping 502*
*Ty, Textile Management 505*
*Ty, Transportation (Planning) 508*
*Ty, Videotex (Creation / Marketing / Systems) 511*
*Ty, Welding Eng 513*
*Ty, Yachting Studies 517*
*Typesetting, Computer, Graphic / Commercial Art 530*
**Typing (Refresher) 589**
**Unclassified 801**
**Underwater Skills 607**
**Underwater Skills Tques 510**
*Upgrading Programs. See Non-Registered Nurse (Upgrading); Welding, High-Pressure Pipe (Upgrading / Refresher / Advanced).*
*Upholstery & Manufacturing, Furniture 736*
*Upholstery & Repair, Furniture 737*
**Urban Design 91**
*(Videotape Recorder) Electronics 681*
**Videotex (Creation / Marketing / Systems) Ty 511**
*(Visiting Homemaker) Home Support 576*
**Visual Arts: Merchandising 92**
*Vocational Program, College 62*
*(Waste Management) Chemical Eng Ty 320*
**Watch Repairer 55**
*Watchmaking / Jewellery & Metal Arts / Repairs 82*
*(Water / Air – Laboratory) Science Ty 490*
*(Water / Air) Resources Eng Ty 483*
*Welder / Fitter 18*
**Welding Eng Tn 512**
**Welding Eng Ty 513**
*Welding & Fabricating (Metal) 628*
**Welding (Fabrication) Tn 514**
**Welding Fitter 647**
**Welding Fitter (Refresher) 648**
**Welding, High-Pressure Pipe (Upgrading / Refresher / Advanced) 649**
**Welding, Layout Fitting 650**
**Welding Operator 651**
*Welding, Pipeline 601*
**Welding Specialist Eng Tques 515**
**Welding Tques 516**
*(Wildlife & Fish) Forestry Ty 405*
**Women Into Trades & Technology 819**
*Women, Job-Search Skills for 811*
*Women, Pre-Trades Training for 818*
*Women, Working Skills for 821*
**Wood Products Management 130**
*(Wood Products) Manufacturing Tn 437*
*Woodworker, Industrial 47*
*Woodworking & Finishing, Furniture 738*
**Word Processing 570**
*Word Processing Correspondence Spec / Steno-Typist, Secretarial Arts 162*
**Word Processing: Microcomputer Applications 142**
*Word Processing Operator / Secretarial Arts, Legal / Procedures & Administration 159*
**Work Skills & Attitude Training 820**
**Working Skills for Women 821**
**Working With Families (Post-Basic) 224**
*Workshop Rehabilitation / Special Care / Residential / Rehabilitation: Counsellor 197*
**Writer, Technical 167**
*Writing, Radio & Television 185*
*X-Ray. See Radiography (Medical) Ty.*
**Yachting Studies Ty 517**

# Algonquin College of Applied Arts and Technology

## Nepean

**President: Philip T. Killeen**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 10 000 |
| Part-time | 44 517 |

Algonquin College primarily serves the Ottawa Valley. It has campuses or centres in Ottawa, Pembroke, Hawkesbury, Renfrew, and Perth, and operates continuing education courses throughout the valley. Algonquin College has been officially designated as a bilingual college.

*Campus locations:*

Woodroffe Campus
1385 Woodroffe Ave.
Nepean, Ontario
K2G 1V8

Rideau Campus
200 Lees Ave.
Ottawa, Ontario
K1S 0C5

Col. By Campus
140 Main Street
Ottawa, Ontario
K1S 1C2

Heron Park Campus
1644 Bank St.
Ottawa, Ontario
K1V 7Y6

School of Renfrew County
315 Pembroke St. E.
Pembroke, Ontario
K8A 3K2

School of Prescott-Russell Counties
282 Main St. East
Hawkesbury, Ontario
K6A 1A5

School of Lanark County
7 Craig Street
Perth, Ontario
K7H 1X7

## Ottawa Campus

### • Applied Arts

*Three-year diplomas*
Child care worker, interior design, museum technology.

*Additional admission requirements:* child care worker – questionnaire; interior design – graphic ability test, test for colour blindness; museum technology – questionnaire. Information session for all.

*Two-year diplomas*
Advertising (creative), broadcasting (radio and television), correctional worker, developmental services worker (mental retardation counsellor), early childhood education, general arts and science, graphic design, horticulture and landscaping, journalism-print, law and security administration, library technician, public relations, recreation facilities management, recreation leadership, social service worker, translation support techniques.

*Additional admission requirements:* correctional worker, law and security administration – questionnaire; graphic design – portfolio of samples of work and/or test; broadcasting (radio and television), journalism-print advertising (creative), public relations – comprehension and communications skills test; translation support techniques – applicants must be bilingual, test. Information session for all.

*One-year certificates*
Protective security, retail florist.

*Additional admission requirements:* protective security – questionnaire, information session.

### • Business

*Three-year diploma*
Business administration (options in accounting, data processing, general business, human resources management, marketing, materials and inventory management), office systems administration.

*Additional admission requirements:* applicants should have four levels of mathematics and language (English or French), both studied at the advanced phase.

*Two-year diplomas*
Business (options in accounting, marketing, retail management), computer programming, hotel and restaurant management, legal assistant, secretarial studies (options in executive, executive bilingual, legal, medical).

*One-year (or less) certificates or diplomas*
Baking techniques, bartending, business – accounting, bookkeeper – typist, business – commercial refresher, business – word processing, computer operator, cook, hairstylist, secretarial arts – general, secretarial arts – executive, secretarial arts – legal, secretarial arts – medical, retail meat cutting, retail sales, travel counsellor, word processing.

*Additional admission requirements:* business – word processing – tests.

### • Health Sciences

*Three-year diplomas*
Medical laboratory technology, nursing, nursing program for registered nursing assistant, respiratory technology.

*Additional admission requirements:* medical laboratory technology – four credits in advanced mathematics (Ontario, Grades 9 to 12) and one credit in each of physics and chemistry (Ontario, Grade 11 or 12) at the advanced level. Candidates with mathematics and sciences at the general level will be evaluated on an individual basis. Applicants who meet the academic requirements will be asked to submit, within a specified time period, an essay on the role of the technologist and will be required to attend an information session. Successful applicants will be required to submit proof of a recent medical examination and immunization; respiratory technology – four credits in advanced mathematics (Ontario, Grades 9 to 12) and one credit in each of advanced physics and chemistry (Ontario, Grade 11 or 12). Candidates with mathematics and sciences at the general level will be evaluated on an individual basis. Applicants meeting academic requirements will be required to attend an information session. Successful appplicants will be required to submit proof of recent medical examination and immunization as evidence of good health; nursing – at least two different sciences from biology, chemistry, or physics taken at the advanced level. Candidates with sciences at the general level will be evaluated on an individual basis. Applicants meeting the academic requirements will be required to attend an information session where an aptitude test will be administered and considered in the final evaluation of the application for admission, and a personal history form will be completed. Accepted applicants must submit proof of a satisfactory physical examination and immunization; nursing program for registered nursing assistant – two different sciences taken at Grade 11 or 12, from biology, chemistry, or physics taken at the advanced level. Candidates with sciences at the general level will be evaluated on an individual basis. Applicants must hold a current certificate of competence as a registered nursing assistant in Ontario.

Applicants must attend an information session where a personal history form will be completed and an aptitude test administered. The results of this test will considered in the final evaluation of the applicant for admission to the program.

Accepted applicants must submit proof of a satisfactory physical examination and immunization prior to entry into the program. Basic cardiac life support certificate is required prior to entry to year 2.

*Two-year diplomas*
Dental hygiene, health records administration.

*Additional admission requirements:* dental hygiene – candidate must be currently registered as a certified dental assistant (Ontario), or equivalent, and must have proof that she/he has completed a minimum of 12 months' full-time work experience as a chairside certified dental assistant after becoming certified and prior to entry into the program.

Applicants who do not have a dental assistant graduation certificate from an Ontario CAAT *will be required* to undergo testing and separate review. If acceptable, remedial programming may be required.

Applicants must complete a work related profile and must have their employer complete an employment reference guide (both forms to be supplied by the college), which will be used to assess work experience.

Applicants must attend one of three scheduled information sessions to be offered by the dental department.

If uncertain of your certification status please contact: Accreditation Chairman, Ontario Dental Nurses and Assistants Association (ODNA & AA), 1454 King Street, East, Kitchener, Ontario, N2G 2N7 – telephone (519) 745-6055.

Applicants who have achieved Ontario certification as a dental assistant through programs other than Ontario community college dental assistant programs must submit proof of successful completion of an approved radiation protection course as required by the Healing Arts Radiation Protection Act (HARP).

Accepted applicants will be required to submit medical, immunization, and dental certificates as evidence of good health, including proof of a recent tuberculosis screening, prior to entry into the program.

Accepted applicants must be qualified in Cardiopulmonary Resuscitation (C.P.R.) – Basic Rescuer Level (Ontario Heart Foundation Standard) and in St. John Ambulance Standard First Aid. These courses may be taken prior to entry into the program but must be completed successfully prior to registration for semester 2. These courses are not part of the dental hygiene program. Due to an ongoing review of admission requirements, selection criteria may change from year to year. Candidates left on the waiting list must re-apply and will be reassessed each year according to the current requirements; health records administration – applicants must have one credit in mathematics (Ontario, Grade 12) and one credit in biology, chemistry, or physics (Ontario, Grade 11 or 12). Applicants meeting the academic requirements will be asked to visit a medical records department to become familiar with the role of the health records administrator and to submit an essay relating their observations. Candidates will be required to attend an information session.

*One-year certificates*
Ambulance and emergency care, dental assistant, nursing assistant, pharmacy assistant.

*Additional admission requirements:* ambulance and emergency care – applicants must have one biology course at the Grade 11 or 12 level. Applicants meeting the academic requirements will be required to attend an information session. Accepted applicants must submit proof of recent medical examination and immunization demonstrating good health. An applicant must have a class "F" driving licence and a Basic Life Support Certificate. According to the Ambulance Act, graduates must be at least 18 years of age to secure employment; dental assistant – applicants must have one credit in each of biology and chemistry (Ontario, Grade 11 or 12). Applicants meeting the academic requirements will be required to visit a dental office to become familiar with the role of the dental assistant and submit, within a specified time period, an essay relating their observations. Applicants will be required to attend an information session. Successful applicants will be required to submit medical, immunization, and dental certificates as evidence of good health and proof of a recent tuberculosis screening; nursing assistant – applicants meeting the academic requirements will be required to attend an information session where a personal history form will be completed and an aptitude test administered. Successful candidates will be required to submit proof of a satisfactory physical examination and immunization; pharmacy assistant – applicants must have one credit in each of mathematics and chemistry (Ontario, Grade 12) and one other science (Ontario, Grade 11 or 12). Applicants meeting the academic requirements will be required to attend an information session. Accepted applicants must submit proof of a recent medical examination and immunization.

**• Technology**

*Three-year diplomas (technology)*
Architectural, biochemical, bioengineering, chemical, computer engineering, computer science, construction, electronic engineering, industrial engineering, manufacturing engineering, mechanical engineering, mechanical engineering, technical writer.

*Additional admission requirements:* applicants must have studied mathematics to Grade 12.

*Two-year diplomas (technician)*
Architectural, computer systems technician, construction technician, digital electronics engineering technician, electro-mechanical engineering, electronics engineering, fire protection, graphics technician, industrial instrumentation, photography, surveying and mapping, toolmaking technician.

*Additional admission requirements:* surveying and mapping – colour and Zeiss stereo-vision test, applicants must have studied mathematics to Grade 12.

*Special one-year diplomas*
Electro-mechanical engineering technician/drafting, electro-mechanical engineering technician (precision instruments), electronics engineering technician.

*Additional admission requirements:* applicants must have studied mathematics to Grade 12.

*One-year certificates*
Business equipment servicing, cabinet making, electronics manufacturing assembler, heating refrigeration and air conditioning, machine shop, path into technology, precision electronics assembler, precision metal fabrication, stationary engineer, welding and fabrication, women into trades and technology.

*Apprentice programs*
Air conditioning and refrigeration, auto body repair, carpenter (general), construction electrician, industrial woodworking, lather, machine shop, motor vehicle mechanic, plumber, precision metal fabrication, sheet metal mechanic.

## School of Renfrew County

*Three-year diplomas*
Nursing.

*Additional admission requirements:* at least two different sciences taken at Grade 11 or 12, from biology, chemistry, or physics taken at the advanced level. Candidates with sciences at the general level will be evaluated on an individual basis. Applicants meeting the academic requirements must attend an information session where a personal history form will be completed and an aptitude test administered. The results of the test will be considered in the final evaluation of the applicant for admission to the program. Accepted applicants must submit proof of a satisfactory physical examination and immunization before entry into the program. Basic Cardiac Life Support Certificate is required before entry to year 2.

*Two-year diplomas*
Business, early childhood education, electronics technician, forestry technician, general arts and science, secretarial studies (executive).

*One-year (or shorter) certificates*
Secretarial studies, computer programmer, electronics systems tester, food preparation, hospitality management, precision electronics assembler, small business administration, women into trades and technology.

**• Alternative Learning**

*Continuing education*
Algonquin offers over 3 000 credit and non-credit courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and consult brochures for details.

*Pre-employment programs*
Contact college for information.

*CEIC (Manpower) programs*
A large number of programs of one year or less duration are offered under the sponsorship of CEIC (Manpower). Contact the Admissions Office for the identification of such programs and application procedures.

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**Additional Costs**
The estimated cost of books, supplies, and instruments for the academic year varies from $40 to $600, depending on the type of program. Please consult the individual monographs or phone for more information.

**Further Information**
*For further information on admission requirements and college facilities, please contact*
Director of Admissions
Algonquin College of Applied Arts and Technology
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7606

Registrar
Algonquin College of Applied Arts and Technology
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7603

*For information and application forms for student awards, please contact*
Financial Aid Administrator
Algonquin College of Applied Arts and Technology
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7678

*For further information on CEIC (Manpower) programs offered in Arnprior, Hawkesbury, Ottawa, Pembroke, Perth, or Renfrew, inquire at the local Canada Employment Centre or Algonquin College.*

# Cambrian College of Applied Arts and Technology

## Sudbury

**President: Glenn N. Crombie**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 2 877 |
| Part-time | 16 000 |

Cambrian College has two modern campuses in Sudbury. The Main Campus on Barrydowne Road houses business, applied arts, and technology programs and labs, a dental clinic, and lecture halls. The Regent Street Campus, the location of the college residence, offers health science programs (other than dental) and features extensive laboratory facilities. Numerous other sites throughout the districts of Sudbury and Manitoulin accommodate both full programs and individual courses.

*Campus locations:*

1400 Barrydowne Rd.
Sudbury, Ontario
P3A 3V8

885 Regent St. S.
Sudbury, Ontario
P3E 4T2

### Programs Offered

**• Arts and Science – General and Applied**

*Three-year diplomas*
Child care worker/*techniques d'éducation spécialisée,* music performance, visual arts.

*Additional admission requirements:* child care worker – questionnaire; music – audition to determine musical aptitude.

*Two-year diplomas*
Audio-visual technician, communications, correctional worker/*technique de services correctionnels,* developmental services worker/*techniques en services de développement,* early childhood education/*éducation des petits,* general arts and science, journalism, law clerk, law and security administration/*administration de la loi et de la sécurité,* music, social services/*services sociaux.*

*Additional admission requirements:* audio-visual technician – senior credit in mathematics, English; correctional worker, early childhood education, law and security administration, developmental services worker, law clerk – questionnaire; social services – questionnaire; music – audition to determine musical aptitude.

**• Business**

*Three-year diplomas*
Accounting/*comptabilité,* business administration/*administration des affaires* (second-year options in general business management, marketing management and pesonnel administration), data processing/*informatique,* marketing, office systems administration, physical fitness and leisure management.

*Additional admission requirements:* office systems administration – senior math, senior English.

*Two-year diplomas*
Accounting/*comptabilité, informatique,* marketing, secretarial/*secrétariat* (executive/*bilingue de direction,* legal/*juridique,* medical/*médical* ).

*One-year certificate*
General secretarial

**• Health Sciences**

*Three-year diplomas*
Medical laboratory technology, nursing/*science infirmières.*

*Additional admission requirements:* medical laboratory technology – two senior credits in English, two senior credits in mathematics, chemistry, and either physics or biology, questionnaire, and visitation report; nursing/*sciences infirmières* – two senior credits in English, one senior credit in mathematics, one senior credit in chemistry, one senior credit in biology (plus two senior credits in français, *sciences infirmières* only), and questionnaire.

*Two-year diplomas*
Dental hygiene (two semesters following a two-semester dental assistant certificate program), radiography/*radiographie.*

*Additional admission requirements:* dental hygiene – graduation from a recognized dental assistant program or eligibility for certification as a dental assistant in Ontario, one year of related working experience, and questionnaire; radiography/*radiographie* – two credits in advanced level mathematics from years three and/or four, two credits in advanced level language from years three and/or four, one credit in advanced level physics and biology or chemistry in years three or four, two additional science credits at the advanced or general level in any year, questionnaire/report, and interview.

*One-year certificates*
Ambulance and emergency care/*secours ambulanciers,* dental assistant.

*Additional admission requirements:* ambulance and emergency care/*secours ambulanciers* – two senior credits in science (biology and either chemistry or physics preferred), questionnaire, Ontario driver's licence – Class "F" recommended, a valid Red Cross or St. John's Ambulance First Aid Certificate recommended, a cardiopulmonary resuscitation (CPR) certificate and good level of physical fitness; dental assistant – two senior credits in sciences, one of which must be biology and the other preferably chemistry or physics, and one credit in typing, a cardiopulmonary resuscitation (CPR) certificate recommended, questionnaire, and report.

**• Technology**

*Three-year diplomas*
Building operations management technology, chemical technology (second-year option in environmental biology and third-year options in material science and waste management), civil engineering technology/*technologue en génie chimique,* electronics engineering/*technologue en génie électronique,* geological engineering (third-year option in geophysics available), industrial instrumentation engineering, metallurgical engineering, mining engineering, stationary (power) engineering.

*Additional admission requirements:* civil engineering technology/*technologue en génie chimique,* geological engineering, mining engineering – two credits in senior English, two credits in mathematics, credits in chemistry and physics; stationary (power) engineering – two credits in senior level English, two credits in senior level mathematics, chemistry, or physics; chemical technology/*technologue en génie chimique,* metallurgical engineering – senior level English, mathematics, physics, and chemistry, electronics engineering/*technologue en génie electronique,* industrial instrumentation engineering – two senior mathematics and English, one senior science credit. Senior level *français* is also required for *technologue en génie chimique* and *génie électronique.* Entrance into the options is based on first-year performance.

*Two-year diplomas (technician)*
Chemistry, civil engineering, electronics engineering/*génie électronique,* geological engineering, industrial instrumentation/*instrumentation industrielle,* metallurgical engineering, mining engineering.

*Additional admission requirements:* chemical, metallurgical engineering – senior English, senior mathematics, senior chemistry, senior physics; civil engineering – senior English and mathematics, senior physics; electronics engineering/*génie électronique,* industrial instrumentation/*instrumentation industrielle,* – two senior English and mathematics, one senior science (plus two senior *français* credits for French programs only); geological engineering and mining engineering – senior English, mathematics, and physics or chemistry.

**• Alternative Learning**

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section and the college calendar for further details.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
Cambrian offers a wide range of credit and non-credit courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the colleges for an up-to-date list of course offerings.

### Additional Costs

Audio-visual/*audio-visuel* – single-lens reflex camera, which costs approximately $300, and about $200 for supplies.

Child care/*techniques d'éducation spécialisée,* social services/*services sociaux,* developmental services worker/*techniques en services de développement,* early childhood education/*éducation des petits,* law clerk – approximately $100 for field-placement trips and personal expenses.

Electronics/*électronique* and industrial instrumentation/*instrumentation industrielle* – $75 for lab projects, which students retain.

Fine arts – approximately $300 per year for books and art supplies.

Chemistry/*génie chimique* and metallurgy – $25 refundable fee per year for breakage.

Ambulance and emergency care/*soins ambulanciers* – $250 for books, safety shoes, uniforms, gym attire, physical examination, first aid courses, and MTC examination.

**Further Information**
*For further information, please contact*
**Registrar**
Cambrian College of Applied Arts and Technology
1400 Barrydowne Rd.
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101 ext. 352, 544

# Canadore College of Applied Arts and Technology

## North Bay

**President: Murray Hewgill**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 2 627 |
| Part-time | 9 469 |

While its primary responsibility is to serve the district of Nipissing, Canadore College also attracts students from across the province. The main campus, the College Education Centre (which Canadore shares with Nipissing University College), Canadore Downtown, the Canadore Technology Centre, the Commerce Court Campus, and the Heliport Campus are the five major facilities in North Bay. The Sturgeon Falls office co-ordinates college programming in West Nipissing, while individual liaison officers respond to the needs of the people of Mattawa and area.

*Campus locations:*

College Education Centre
1300 Gormanville Rd.
Box 5001
North Bay, Ontario
P1B 8K9

Sturgeon Falls Office
162 King St.
Sturgeon Falls, Ontario
P0H 2G0

Downtown Campus
168 First Ave. E.
Box 5001
North Bay, Ontario
P1B 8K9

Canadore College
Heliport Campus
P.O. Box 5001
North Bay, Ontario
P1B 8K9

Canadore Technology Centre
Commercial St.
P.O. Box 5001
North Bay, Ontario
P1B 8K9

Commerce Court Campus
60 Commerce Court
P.O. Box 5001
North Bay, Ontario
P1B 8G4

### Programs Offered

Bilingual programs require verbal and written fluency in both English and French.

- **Arts and Science – General and Applied**

*Two-year diplomas*
Broadcasting (radio, journalism, or television), crafts and design (part-time through general arts and science), general arts and science, graphic communications, journalism (print), recreation leadership.

*Additional admission requirements:* two senior level English preferred; broadcasting (radio) – completion of prescribed tests.

*Short programs (certificate)*
Baking techniques, basic employment training, basic job readiness training, basic training for skill development, career planning for women, dining room service, English as a second language, food preparation (general) – basic and advanced, retail meat cutting, women into trades and technology.

Note: Many of the short programs are offered on a self-paced, individualized instruction mode.

*Additional admission requirements:* short programs normally require Grade 10 English (or French) and math, and an interview with the faculty.

- **Business**

*Three-year diplomas*
Business administration/*administration des affaires,* accounting, computer programmer analyst, marketing, small business administration.

*Additional admission requirements:* senior level English (or French) and Grade 11 mathematics at the advanced or general level preferred.

*Two-year diplomas*
Accounting, business/*commerce,* culinary management/*gestion culinaire,* food service supervision, hotel/resort and restaurant management/*gestion hôtelière,* legal assistant, microcomputer management, office administration, small business management.

*Additional admission requirements:* senior level English or French and Grade 11 mathematics at the advanced or general level preferred; hotel, resort, and restaurant management/*gestion hoteliere,* culinary management/*gestion culinaire* – complete immunization and testing required; food service supervision – senior level chemistry preferred, proof of a recent tuberculin test required.

*One-year certificate*
Secretarial (options in dicta typist/*dicta typie,* executive/*secrétariat de direction,* legal, medical, stenographer word processing specialist).

*Additional admission requirements:* executive/*secrétariat de direction,* legal, medical – a typing speed of 40 wpm; legal and executive secretary – shorthand is desirable but not required; word processing specialist – introductory word processing course preferred. Applicants who cannot meet this requirement should first complete the one-year dicta typist/*dicta typie* course or the one-year stenographer course.

*Short programs (certificates)*
Automated office skills/ *formation aux travaux de bureau automatise.*

Note: Short programs are offered on a self-paced, individualized instruction mode.

*Additional admission requirements:* short programs normally require Grade 10 English or French, mathematics, and an interview with the faculty.

- **Health Sciences**

*Three-year diplomas*
Biological technician/technologist (environmental), medical technology (laboratory).

*Additional admission requirements:* Preference will be given to applicants with Grade 11 mathematics, and biology, chemistry, and physics at the advanced or general level.

*Two-and-one-half-year diplomas*
Nursing/*sciences infirmières.*

*Additional admission requirements:* Grade 11 biology and one of physics or chemistry at the advanced or general level of the senior division; completion of prescribed tests and attendance at a group information session.

*Two-year diploma*
Food processing technician – industrial and biological technician/technologist (environmental): see "Three-year diplomas" above.

*One-year certificates*
Dental assistant/*soins dentaires,* dental hygiene, nursing assistant.

*Additional admission requirements:* dental assistant/*soins dentaires,* dental hygiene – Grade ll biology and Grade 12 chemistry at the advanced or general level, completion of prescribed tests, and a manual dexterity test; dental assistant/ *soins dentaires* – also requires a written report of a one-day visit to a dental office; dental hygiene – must be a dental assistant eligible for certification or a certified dental assistant with 12 months' full-time work experience; nursing assistant – Grade 11 biology and a science subject at the general or advanced level of the senior division.

*Short programs (certificate)*
Postdiploma psychiatric nursing for nursing assistants (eight weeks clerical, ten weeks theory), radiation protection.

*Additional admission requirements:* postdiploma psychiatric nursing for nursing assistants – only a registered nursing assistant or a nursing assistant graduate is eligible for registration. A personal interview is conducted to determine employment suitability in a psychiatric care facility; radiation protection – candidates must provide written evidence from their employer that they are working in a dental office and are rountinely taking and processing X-rays, under the direction of a dentist.

Note: All health science programs require compliance with the Ontario Public Hospitals Act, or its equivalent in health standards.

**• Technology**

*Three-year diplomas*
Computer technology – process control.

*Additional admission requirements:* Grade 11 mathematics at the advanced or general level required (Grade 12 mathematics preferred).

*Two-year diplomas*
Aviation technician (aircraft maintenance), aviation technician (avionics maintenance), civil engineering technician (construction), drafting technician, electronics engineering technician, electromechanical engineering technician (robotics), electronics telecommunication technician, instrumentation, mechanical engineering technician – numerical control, mechanical-machine shop operations.

*Additional admission requirements:* aviation technician (aircraft maintenance) – Grade 11 mathematics and physics at the advanced or general level required; aviation technician (avionics maintenance), electro-mechanical engineering technician (robotics), electronics engineering technician, electronics telecommunication technician, instrumentation, mechanical engineering technician – numerical control – Grade 11 mathematics and physics at the advanced or general level required, Grade 12 mathematics is preferred; civil engineering, drafting technician – Grade 11 physics and Grade 12 mathematics at the advanced or general level preferred.

*One-year certificate*
Aviation pilot – rotary (helicopter pilot).

*Additional admission requirements:* Grade 11 physics and Grade 12 mathematics. Applicants must submit, with their application, a summary of Pilot Log Book, evidence of a D.O.T. Flight Medical Certificate Category 1, and a pilot's licence.

*Short programs (certificate)*
Bricklayer, cabinet making – carpenter general, fluid power and control mechanic – heating technician, heavy-duty equipment mechanic, native alcoholism counsellor, offset printing, sawmill technician, welding fitter.

Note: Many of the short programs are offered on a self-paced, individualized instruction mode.

*Additional admission requirements:* short programs normally require Grade 10 English (or French) and math, and an interview with the faculty.

**• Alternative Learning**

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for further details.

*Continuing education*
Many of Canadore's full-time regular programs may also be taken on a part-time basis during the day or in the evening. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and contact the Chairman of Part-Time Studies at Canadore Downtown for further details.

**Further Information**

*For further information on admission requirements and details about programs and facilities at Canadore College, and for information and application forms for student awards and loans, please contact*
Registrar
Canadore College of Applied Arts
and Technology
P.O. Box 5001
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 123, 131, 132, 501, 502, 509; or, if calling from outside the North Bay local calling area, please call, toll-free, 1-800-461-9513 from area codes 705, 416, 519, 613 only.

*For further information and application forms for student residences, please contact*
Residence Manager
College Education Centre Residence
P.O. Box 5005
North Bay, Ontario P1B 8L7
Telephone (705) 474-1550

# Centennial College of Applied Arts and Technology

## Scarborough, East York

**President: I. Bev McCauley**

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 8 000 |
| Part-time | 35 000 |

Centennial College, serving Metro Toronto, Scarborough, and East York, is Ontario's first community college and is comprised of four large campuses – Ashtonbee (industrial robotics, aircraft, and transportation programs); East York (business administration, college preparatory, and English as a second language programs); Progress (engineering technology, business administration, and secretarial science programs); Warden Woods (health sciences, communications, hospitality, consumer services, community services, and general arts and science programs).

Centennial College offers more than 85 programs for full-time students. In addition, a wide range of part-time and evening courses are available through the Continuing Education Division throughout the year. Centennial's Management Training Centre offers many individually designed programs for business and industry, and also co-ordinates and sponsors a variety of public and client seminars.

*Campus Locations:*

Warden Woods
651 Warden Ave.
(south of St. Clair)
Scarborough, Ontario

East York
951 Carlaw Ave.
(north of Pape subway)
Toronto, Ontario

Ashtonbee
75 Ashtonbee Rd.
(Warden north of Eglinton)
Scarborough, Ontario

Progress
41 Progress Court
(401 and Markham Rd.)
Scarborough, Ontario

CareerInfo is a service available to any individual in need of more information regarding Centennial College's programs and the careers to which they lead. Call or write the Liaison Office for special career brochures, calendars, posters, and other information. This office also co-ordinates daily campus tours by individuals and high school groups, and teacher addresses to high school audiences.

**Programs Offered**

**• Arts and Science – General and Applied**

*Three- and two-year diplomas*
General arts and science (options in general studies, science studies, and visual arts).

*Three-year diplomas*
Communications (programs in creative advertising, journalism – print, broadcasting: radio and TV), community services (child care worker), consumer services (hospitality and tourism administration options in convention management, hotel management, tour and operations management, and restaurant management).

*Additional admission requirements:* orientation counselling, diagnostic/achievement test in English; communications – 500-word essay written at Centennial.

*Two-year diplomas*
Communications (options in book and magazine publishing, organizational communications), community services (programs in correctional worker, early childhood education, development services worker, recreation leadership, social service worker), consumer services (programs in fashion merchandising, home furnishings – merchandising, food service supervisor, travel counsellor).
*Additional admission requirements:* orientation counselling, diagnostic/achievement test in English; organizational communications – 500-word essay written at Centennial.

*One-year certificate*
General arts and science (options in general studies, science studies, and visual arts).

*17-week program (one semester)*
Cosmetic retailing (17 weeks).
*Additional admission requirements:* Grade 12 or mature student status, participation in orientation counselling, ability to identify colours correctly.

### • Business

*Three-year diploma*
Business administration (options in accounting and financial management, accountant/programmer analyst, general management, marketing management, production and operating management, computer programmer/analyst), office systems administration.

*Two-year diplomas*
General business (options in accounting, data processing, general studies, legal assistant, marketing), secretarial science (options in executive, legal, medical – all options include word processing).

*One-year certificates*
Computer programming, entrepreneurship and small business management, secretarial science (options in executive, general, legal, medical – all options include word processing), word processing operator (16 weeks' duration).
*Additional admission requirements:* computer programming – orientation counselling, diagnostic/achievement test in mathematics and computer aptitude test; executive and legal secretarial – 45 wpm typing and 80 wpm shorthand; medical secretarial – 45 wpm typing; word processing operator – 45 wpm typing and an English test.

*Short programs*
Office information administrator (52 weeks).
*Special admission requirements:* successful completion of a business mathematics and communications test, and basic keyboarding skills.

### • Health Sciences

*Three-year diploma*
Nursing (This program leads to a diploma in nursing and, upon sucessful completion of the examination set by the College of Nurses of Ontario, certification as a registered nurse.)
*Additional admission requirements:* two senior level sciences (biology preferred) with satisfactory marks (percentage guidelines are assessed as 60% at the advanced level and 70% at the general level), satisfactory score in an English test, and mathematics, orientation counselling, letters of reference (upon request) (see college calendar for more details).

*One-year certificate*
Ambulance and emergency care, Registered Nursing Assistant (RNA).
*Additional admission requirements:* same as for nursing, and a Class "G" Ontario driver's licence (Class "F" advised).

Note: Before undertaking this program, the applicant should be aware that under the provisions of the Ambulance Act (1975), employment as an ambulance attendant is prohibited to any individual who:
a) in the past year has received six or more demerit points on the driving record by the Registrar of Motor Vehicles; or
b) has had a driving licence suspended in the previous two years; or
c) has been prohibited from driving under the Criminal Code of Canada within the past three years; or
d) has ever been convicted of any crime involving moral turpitude for which he/she has not been pardoned.

Graduates of this program are required by Ministry of Health regulations to qualify as Emergency Medical Care Assistants (EMCA).

### • Technology

*Three-year diplomas (technology)*
Architectural (drafting option in third year for students who have successfully completed the two-year architectural technician program), biological (industrial microbiology), chemical engineering (industrial), civil engineering (co-op) (option in public works), computer systems technology, electronics engineering (options in control systems, electronics), fluid power and robotics (hydraulics, robotics, and pneumatics), mechanical engineering (options in industrial and mechanical design).
*Additional admission requirements:* Grades 11 and 12 mathematics (business mathematics excluded), Grade 12 English; architectural, fluid power*, civil, mechanical engineering – Grade 11 physics; biological (microbiology) – Grade 11 or 13 biology, Grade 12 or 13 chemistry; chemical engineering – Grade 12 or 13 chemistry, Grade 11 or 13 physics or biology (physics recommended); electronics engineering – Grade 11 physics, one other senior level science course.

*Two-year diplomas (technician)*
Architectural (drafting), automotive (technical, administration)*, biological (industrial microbiology), chemical engineering (industrial), civil engineering (co-op) (option in public works), electronics engineering, fluid power, industrial instrumentation (process measurement and control), mechanical engineering (options in industrial, mechanical design).
*Additional admission requirements:* same as for the three-year programs; industrial instrumentation – Grades 11 and 12 mathematics (business mathematics excluded), Grade 12 English and chemistry, Grade 11 physics.

*Metal Machining Program (two-year)*
Options in industrial machinist, mould maker, tool and die maker.
*Special admission requirements:* individual assessment.

*One-year programs*
Automotive parts merchandising, advanced fibre/plastics composites. *Additional admission requirements:* advanced fibre/plastics composites – admission is offered to graduates of a two-year diploma in mechanical or chemical engineering technology, or equivalent by permission of the department.

*Technician programs (52 weeks)*
Industrial robotics, avionics maintenance specialist (aviation electronics), aircraft maintenance technician.
*Additional admission requirements:* Grades 11 and 12 mathematics, Grade 11 physics, and successful completion of a mathematics and English test.

*Technician programs (64 weeks)*
Electronics engineering technician, instrumentation engineering technician, metal machining.
*Additional admission requirements:* electronics – Grade 12 English, Grades 11 and 12 mathematics (business mathematics excluded), Grade 11 physics, one other senior level science course; instrumentation – Grade 12 English, Grades 11 and 12 mathematics (business mathematics excluded), Grade 11 physics, Grade 12 chemistry.

### • Alternative Learning

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.
*Special admission requirement:* diagnostic test.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section. Candidates interested in registering in an apprenticeship program *should not apply* to Centennial College but instead should contact their local Apprenticeship Branch. Candidates to other Centennial programs should apply to the college in the normal manner.

*Continuing education*
Centennial College offers more than 500 credit and non-credit courses. These courses are primarily offered on a part-time studies basis. Students may seek admission to courses that start in September, January, and May of each year. The Continuing Education Division also provides special educational services to professional and other interest groups. For brochures and specific information, call 694-3241, extension 3410.

*Pre-employment programs*
Aircraft maintenance technician, avionics maintenance specialist.
*Additional admission requirements:* Grades 11 and 12 mathematics, Grade 11 physics, mathematics and English test.

Industrial robotics.
*Additional admission requirements:* successful completion of a test in mathematics and English.

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*Candidates who lack the necessary requirements may receive special admission orientation counselling.

Heavy-duty equipment mechanic, marine and small-powered equipment mechanic.
*Special admission requirement:* Grade 10.

**Further Information**

*For further information regarding programs, college facilities, and career-search visits of the campuses, please contact*
The Liaison Office
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241, ext. 3312/3319

*Applications to Centennial should be directed to*
The Office of the Registrar
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 698-8550

*For further information regarding financial assistance and related OSAP forms, please contact*
Director, Financial Aid
Centennial College of Applied Arts and Technology
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 439-7180, ext. 2255

# Conestoga College of Applied Arts and Technology

## Kitchener

**President: Kenneth E. Hunter**

**Enrolment 1985-86**

| | |
|---|---|
| Full-time | 4 700 |
| Part-time | 29 000 |

Conestoga College serves the communities in the four counties of Waterloo, Wellington, Perth, and Huron. Within this midwestern Ontario region, the college provides a selection of educational programs specifically designed to prepare people for occupations in business, industry, and health and community services. Two new facilities are planned for the Doon campus: a health sciences addition scheduled to open in August 1987, and a woodworking skills development centre scheduled to open early in 1988.

*Campus locations:* Conestoga College campuses are located in Cambridge, Clinton, Doon (Kitchener), Guelph, Stratford, and Waterloo. Diploma programs are offered at Doon, Guelph, Stratford, and Waterloo. Certificate programs and part-time studies are offered at all campuses except Clinton, which offers part-time courses.

**Programs Offered**

**• Arts and Science – General and Applied**

*Three-year diplomas*
Broadcasting (radio and television), design (graphic and advertising), journalism (print) (80 weeks).

*Additional admission requirements:* broadcasting (radio and television) – aptitude test, interview, portfolio; design (graphic and adverising) – Grade 12 English, interview, portfolio of art and/or design-related work; journalism (print) – Grade 12 English, academic strength in English, interview, questionnaire.

*Two-year diplomas*
Early childhood education, law and security administration, recreation leadership, social services.

*Additional admission requirements:* early childhood education – Grade 12 English, questionnaire, interview, satisfactory medical record; law and security administration, recreation leadership – Grade 12 English, questionnaire, interview; social services – 19 years of age by August 31 of current academic year, questionnaire, interview.

**• Business**

*Three-year diplomas*
Business administration (accounting, management studies, marketing, materials management).

*Additional admission requirements:* business administration (accounting, management studies, marketing) – Grade 12 English and mathematics; business administration (materials management) – Grade 11 mathematics and English, strength in mathematics and English.

*Two-year diplomas*
Business (computer programmer/analyst), food and beverage management, general business, office systems administration.

*Additional admission requirements:* business (computer programmer/analyst) – Grade 12 English and mathematics; food and beverage management – Grade 12 English, questionnaire, interview, satisfactory medical record; general business – Grade 12 English and mathematics; office systems administration – Grade 12 English.

*One-year diplomas (52 weeks)*
Secretarial arts (executive).

**• Health Sciences**

*Diploma nursing.*
This is a 93-week program leading to a diploma in nursing.

*Additional admission requirements:* one Grade 11 or 12 course in biology and one in physics or chemistry, questionnaire, and interview. For successful achievement in the program, it is desirable that the applicant have a background in and aptitude for the sciences of biology, chemistry, and physics, along with senior level English, family studies, basic mathematics, and communications skills. Applicants must meet the medical criteria.

*One-year certificate*
Ambulance and emergency care.

*Additional admission requirements:* Ontario driver's or class "F" licence, questionnaire, interview. Applicants must meet the medical criteria; Grade 11 or 12 English and biology preferred.

**• Technology**

*Three-year diplomas (technology)*
Civil engineering, construction engineering, electronics engineering, mechanical engineering (options in automated manufacturing, computer-aided design and analysis).

*Additional admission requirements:* civil engineering, electronics engineering – Grade 12 technical mathematics, Grade 11 or 12 physics or general science, Grade 11 English; construction engineering – Grade 12 technical mathematics, Grade 11 or 12 physics, Grade 11 English; mechanical engineering – Grade 12 technical mathematics, Grade 11 English, academic strength in technical mathematics, questionnaire, interview.

*Two-year diplomas (technician)*
Electrical machinery and apparatus, electro/hydraulic, electro/mechanical, electronics engineering (options in industrial control), graphic, manufacturing (wood products), mechanical engineering (options in design drafting, numerical control), metal fabrication, residential construction techniques, welding engineering.

*Additional admission requirements:* electrical machinery and apparatus, electronics engineering – Grade 12 technical mathematics, Grade 11 or 12 physics or general science, Grade 11 English, interview; electro/hydraulic, electro/mechanical, metal fabrication – Grade 12 technical mathematics and English, Grade 11 physics; graphic – interview, portfolio; wood products – questionnaire, interview; mechanical engineering – Grade 12 technical mathematics, Grade 11 English, questionnaire, interview; residential construction – Grade 12 technical mathematics, questionnaire; welding – Grade 11 English, mathematics and physics, strength in mathematics and physics, assessment.

*Certificate programs*
Conestoga College offers a number of certificate programs that vary in length from 4 to 48 weeks. Consult the current college calendar or contact Liaison Services for details of these programs.

**• Alternative Learning**

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Sponsored programs*
Contact the college for information.

**Further Information**

*For additional information, please contact*
Liaison Services
Conestoga College of Applied Arts and Technology
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 653-2511 ext. 279, 366

## Confederation College of Applied Arts and Technology

## Thunder Bay

**President: B.E. Curtis**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 4 500 |
| Part-time | 15 000 |

Confederation College serves the communities of northwestern Ontario as far west as the Manitoba border, east to White River, and north to James Bay.

*Campus locations:* The main campus is situated in Thunder Bay. Off-campus locations in Thunder Bay house the aviation programs. Many postsecondary, adult training, and continuing education programs are offered at other campus locations, including Dryden, Kenora, Fort Frances, Geraldton, and other areas.

**Programs Offered**

**• Arts and Science – General and Applied**

*Three-year diploma*
Child care worker.

*Two-year diplomas*
Band management (Native), broadcasting (radio and TV), child care worker, community gerontology, developmental services worker, early childhood education, film production, general arts and science (core), Indian economic development, law and security administration, Native child and family worker, performing arts administration, photography, recreation leadership, social service worker.

*Additional admission requirements:* band management (Native) – questionnaire; early childhood education – supplemental admission form, a medical before commencing classes; law and security administration – supplemental admission form; Native child and family worker – supplemental admission form; performing arts administration – related experience preferred, supplemental admission questionnaire, references; recreation leadership – supplemental admission form; social service worker – supplemental admission form. Interviews may be required.

*One-year certificates*
General vocation preparation.

**• Business**

*Three-year diplomas*
Accounting and finance, computer programmer analyst, industrial relations.

*Additional admission requirements:* satisfactory standing in first-semester core subjects; computer programmer analyst – years 3 and 4 general or advanced level mathematics.

*Two-year diplomas*
Culinary management, general business (core) (options in administration, marketing, accounting), hotel management, personnel management, travel/tourism administration.

*Additional admission requirements:* personnel management, industrial relations – satisfactory standing in first-semester core subjects.

*One-year certificates*
Equal opportunity management (postdiploma program), executive secretarial, general secretarial, legal secretarial, medical secretarial.

*Additional admission requirements:* executive secretarial – 40 wpm typing; legal secretarial – 40 wpm typing; medical secretarial – 40 wpm typing.

**• Health Sciences**

*Two-and-one-half-year diploma*
Nursing.

*Additional admission requirements:* credits in two different science subjects from year 3 or 4 (to be selected from chemistry, biology, or physics), credit in year 2 mathematics, questionnaire, medical, interviews, testing, and recommendations may be required.

*Two-year diplomas*
Radiography.

*Additional admission requirements:* two advanced level mathematics credits from years 3 and 4, two advanced level language credits (English or French) from years 3 and 4, one advanced physics credit from years 3 and/or 4, one advanced level credit in either chemistry or biology from years 3 and/or 4, two other science credits taken at either the advanced or general level, questionnaire, successful interview.

*One-year certificates*
Dental assistant, dental hygiene.

*Additional admission requirements:* dental assistant – credits in year 4 chemistry, year 3 or 4 biology, and introductory typing, possible interview, recent certificate of good health including a TB skin test, successful completion of CPR course (heart-saver); dental hygiene – certificate in dental assisting from a recognized dental assistant program or certification as a dental assistant, manual dexterity test, minimum of B average in dental assistant program, successful interview, recent certificate of good health including a TB skin test, successful completion of CPR course (basic cardiac life support), one year's work experience in dental field.

**• Technology**

*Three-year diplomas*
Architectural technology-design, aviation (manufacturing) engineering technology, civil engineering technology (co-op), electrical computer/control technology, interior design.

*Additional admission requirements:* architectural technology-design – credits in years 3 and 4 mathematics; aviation (manufacturing) engineering technology – credits in years 3 and 4 mathematics (physics beneficial but not mandatory); civil engineering technology (co-op) – credits in years 3 and 4 mathematics, year 3 physics, year 4 chemistry, years 3 and 4 English (direct entry into semester three requires completion of OACs with credits in English, algebra, calculus, functions and relations, physics, and chemistry); electrical (computer/control) technology – years 3 and 4 technical mathematics at general level required (advanced level beneficial but not mandatory), physics and/or chemistry from year 3 or 4, business mathematics not acceptable for admission.

*Two-year diplomas*
Air carrier/airport management, architectural technician- design, aviation technician – aircraft

maintenance, aviation flight management, aviation (manufacturing) engineering technician, construction engineering technician, electrical engineering technician, electronics engineering technician, instrumentation engineering technician, interior design, mechanical engineering technician, survey technician (co-op).

*Additional admission requirements:* years 3 and 4 general or advanced level mathematics (business mathematics not acceptable); aviation flight management – MOT medical examination, references, interview.

*One-year certificate*
College vocational program, industrial mechanical maintenance techniques, motive power techniques – heavy equipment, stationary engineer 3rd and 4th class, welding techniques.

**• Alternative Learning**

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

*Apprenticeship*
See CAAT chart for programs offered, and the *Apprenticeship* section for details.

*Continuing education*
Confederation offers over 500 credit and non-credit subjects. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and college calendar or contact the Continuing Education Office.

*Adult training programs*
Along with upgrading career planning for women, English as a second language, English for science and technology, food preparation – basic and advanced, and industrial electronic control and microcomputer management, a number of skills programs are offered. Contact the college for further information.

*Ontario Management Development Program*
This program provides an opportunity for managers, supervisors, and small-business owners/operators to increase their knowledge and skill. Ontario provincial certificates are available upon the completion of an appropriate selection of six credits. The two certificates currently available are in business management studies and supervisory studies. For more information, contact the Registrar's Office or the Continuing Education Division.

*Ontario Skills Development Offices*
Ontario has established a high-quality training consulting service for Ontario firms – the Ontario Skills Development Offices (OSDOs). Each OSDO is managed by the CAAT responsible for the geographic area in which the OSDO is established. It provides regionally appropriate services and staffing to develop greater participation by smaller employers and significantly improved participation of groups previously under-represented in training.

The objectives of the training consulting service are to ensure that Ontario firms are cognizant of the role that training plays in addressing productivity and efficiency problems, that training needs are accurately identified, and that these needs are met in the most effective and cost-efficient manner.

The elements of training consulting carried out by this service are the provision of relevant information on training and education, the identification and analysis of training needs, the development or validation of training plans, advice and assistance in arranging training instruction in English or French to implement training plans, the recommendation of incentive funding, and follow-up, evaluation, and certification of the training.

The Ontario Skills Program encourages firms to provide training for their employees by lowering the costs of training. The program provides grants against a portion of direct instructional costs of training. Recommendations for Ontario Skills funding are made by the Ontario Skills Development Offices.

**Further Information**
*For further information on admission requirements and for details about programs and facilities, please contact*
Mr. Joseph A. St. Amand
Associate Registrar

Mr. Henry Guthmann
Registrar

Mr. Glen Paterson
Community Liaison Officer

Mr. Bob Armstrong
Placement Officer

Mr. R. Griffiths
Financial Aid Officer

Confederation College of Applied Arts and Technology
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
Northwestern Ontario residents call toll free 1-800-465-6961 or 1-800-465-6962.

# Durham College of Applied Arts and Technology

## Oshawa

**President: Melvin L. Garland**

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 2 650 |
| Part-time | 14 000 |

Durham College is located in Oshawa and offers a wide selection of programs, five of which are unique: aviation transport and industrial engineering technology, engineering secretary, industrial management, legal administration, and sports administration.

### Programs Offered

**• Applied Arts**

*Two-year diplomas (*some with optional third year)*
Advertising administration, early childhood education, food and beverage management, general arts and science, *graphic design, *interior design, journalism, public relations, *sports administration.

*Additional admission requirements:* sports administration, interior and graphic design – Grade 12 English, mathematics recommended; interior and graphic design – a basic understanding of art and/or design.

*One-year postdiploma*
Sports administration, technical writing.

**• Business**

*Three-year diplomas*
Business administration (data processing, finance and accounting, general, industrial management, marketing), legal office administration, office systems administration, retail merchandising (fashion).

*Additional admission requirements:* Grade 12 English, Grade 12 mathematics recommended. Students wishing to take a three-year program should be aware that it is academically more demanding (particularly in mathematics) than a two-year program.

*Two-year diplomas*
Business (data processing, finance and accounting, general, human resources management, marketing, materials management, office administration – secretarial (engineering, general, medical, legal, word processing).

*Additional admission requirements:* business – Grade 12 English, Grade 12 mathematics preferred; word processing – basic course in theory and concepts of word processing.

*One-year certificate*
Office administration (secretarial).

**• Health Sciences**

Nursing.
The two-and-one-half-year program leads to a Diploma of Nursing and, upon successful completion of the examinations set by the College of

Nurses of Ontario, certification as a registered nurse. Limited enrolment.

*Additional admission requirements:* Grade 12 English, senior level chemistry and biology, program-specific questionnaire.

*One-year certificate*

Nursing assistant.

This program leads to a Nursing Assistant Certificate and, upon successful completion of the examinations set by the College of Nurses of Ontario, certification as a registered nursing assistant. Limited enrolment.

*Additional admission requirements:* senior level biology, program-specific questionnaire, mature students whose work experience and personal background indicate a likelihood of success are encouraged to apply.

Dental assistant.

This program is designed to prepare skilled assistants for employment in dental offices and clinics. Limited enrolment.

*Additional admission requirements:* Grade 12 English, senior level credits in chemistry and biology, program-specific questionnaire, typing/keyboarding. Preference given to permanent residents of the Durham region and the areas served by Sir Sandford Fleming and Loyalist colleges. Forty wpm typing is an asset.

Dental hygiene.

This program is designed to train students to the level that will qualify them to write the Royal College of Dental Surgeons registration examination for hygienists. Limited enrolment.

*Additional admission requirements:* successful completion of the dental-assisting program in an Ontario CAAT, minimum one year's work experience as a dental assistant, a dentist employer's recommendation, program-specific questionnaire.

Preference given to permanent residents of the Durham region and the areas served by both Sir Sandford Fleming and Loyalist colleges.

### • Technology

*Three-year diplomas (technology)*

Aviation transport and industrial engineering, chemical, civil, computer, electronic, and mechanical; options offering training in CAD/CAM and robotics industrial production.

*Additional admission requirements:* Applicants interested in the three-year engineering technology programs should be aware that they are more demanding than the two-year programs. Grade 12 English and mathematics (advanced or technical) are required, and Grade 12 chemistry and Grade 11 physics are strongly recommended for a three-year technology program. Subjects such as biology, computer science, drafting, electronics, environmental studies, and technical report writing may also provide an adequate background. See calendar for details of direct-entry eligibility.

*Two-year diplomas*

Civil, computer, electronic and mechanical, additional training in CAD/CAM and robotics.

*Additional admission requirements:* Grade 12 English and mathematics (advanced or technical), less physics is recommended. Students who have taken electrical/electronic subjects or mechanical/drafting subjects in any year of high school will find these studies a decided asset. A general academic background, coupled with a strong desire to succeed in the technical field of your choice, is also an asset.

Food and drug technology.

This program trains people to work in the food and drug industry, where they will help maintain a high calibre of production standards, as established by government regulations. Graduates of this program will find themselves in responsible positions that offer excellent remuneration and working conditions.

*Additional admission requirements:* Grade 12 English and mathematics (advanced or technical) and senior level biology and chemistry are recommended. Applicants with Grade 13 credits in chemistry, biology, mathematics, and English will be considered for direct entry into second year.

Medical lab technology.

Durham College is offering the first year of this three-year program. Successful students will, upon acceptance, complete the second year of the program at the Toronto Institute of Medical Technology. The third year of the program will be primarily clinical, with supervised teaching laboratory experience being given in local hospital laboratories. The first year of this program is common to the food and drug technology program. Consequently, the students in either food and drug technology or medical lab technology have one year in which to make a decision on their future career. Only a limited number of applicants are accepted for medical lab technology because of the restricted enrolment at the Toronto Institute of Medical Technology. Students wishing to attend the institute will be interviewed before being accepted.

*Additional admission requirements:* Grade 12 English and mathematics (advanced or technical) and senior level biology and chemistry are recommended.

Non-semestered programs.

On request and to fill specifically identified needs, Durham offers programs ranging from 8 to 64 weeks in length, leading to certificates and diplomas in high-technology programs such as electronics, CAD/CAM, computer science, and computer graphics.

### • Alternative Learning

*Academic upgrading*

For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section, and contact the Admissions Officer.

*Adult training*

In addition to upgrading and college preparatory courses, the college offers skill courses and special courses for business and industry. Contact the Student Affairs Officer, Simcoe Building, for details.

*Continuing education*

Along with a variety of non-credit, special-interest courses, Durham offers certificate and diploma program courses on a part-time basis throughout the year. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and contact the Admissions Officer.

**Further Information**

*For further information about admission requirements and details on programs and facilities, please contact*

Admissions Officer
Durham College of Applied Arts and Technology
P.O. Box 385
Simcoe St. N.
Oshawa, Ontario L1H 7L7

*For information about student awards and loans, please contact*

Financial Aid Officer
Durham College of Applied Arts and Technology
P.O. Box 385
Simcoe St. N.
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210

# Fanshawe College of Applied Arts and Technology

## London

**President: Dr. Barry Moore**

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 11 093 |
| Part-time | 44 381 |

The Fanshawe College main campus is located in London. The college has four other campuses, which serve the counties of Middlesex, Elgin, Oxford, and the Norfolk portion of the Haldimand-Norfolk region.

*Campus locations:*

Main Campus
1460 Oxford St. East
London, Ont.
N5W 5H1

Adult Education
Muncey Campus
R.R. #1
Muncey, Ontario
N0L 1Y0

Woodstock Campus
R.R. #3
Woodstock, Ontario
N4S 7V7

Adult Education
St. Thomas Campus
10 Ontario Road
St. Thomas, Ontario
N5O 3N4

J.N. Allan Campus
Ireland Rd.
Simcoe, Ontario
N3Y 4K4

### Programs Offered

**• Arts and Science - General and Applied**

*Three-year diplomas*
Communications (advertising art, fine art, photography), community services (major in child care worker), design - co-op (majors in fashion, interior, industrial, landscape, urban).

*Two-year diplomas*
Communications (majors in audio-visual technician, broadcasting radio, broadcasting television, hotel and restaurant management - co-op, journalism broadcast, music industry arts - recording engineering and recorded music production, photography), community services (majors in developmental services worker, early childhood education, social service worker), consumer services (majors in general arts and science, law and security administration (police program and general program), legal office administration - co-op, library technician, physical fitness instructor, recreation leadership, tourism and travel counsellor - co-op, urban affairs and real estate - assessment, urban affairs and real estate - municipal administration).
*Additional admission requirements:* developmental services worker, early childhood education, law and security administration, legal office administration, tourism and travel counsellor - Grade 12 English.

*One-year certificate*
Legal office administration.
*Additional admission requirements:* at least one complete year of postsecondary education and/or at least two years of related work experience.

**• Business**

*Three-year diplomas*
Business administration (majors in accounting, marketing), business information systems - co-op, secretarial science - co-op (major in professional secretarial).

*Two-year diplomas*
Business (majors in accounting - co-op, data processing - co-op, marketing - co-op, finance, purchasing, data analysis, computer programmer, 64 weeks), farm business management, secretarial science (majors in executive, legal, medical, word processing).
*Additional admission requirements:* executive, legal, and medical secretarial (shorthand major) - secretarial arts certificate with stenography major (one year), or OSSD/OSSGD with 80 wpm shorthand, 50 wpm typing; executive, medical, and legal secretarial (dicta-typist major), word processing - secretarial arts certificate (one year), or OSSD/OSSGD with 50 wpm typing (40 wpm typing for word processing).

*One-year certificate*
Secretarial arts.

**• Health Sciences**

*Three-year diploma*
Medical laboratory technology.
*Additional admission requirements:* medical laboratory technology - Grade 12 advanced English, Grade 12 advanced mathematics, Grade 11 or 12 advanced chemistry, Grade 11 or 12 advanced biology.

*Two-year diplomas*
Nursing (two 11-month years), radiography, respiratory technology.
*Additional admission requirements:* nursing - Grade 12 English (preferably advanced), Grade 11, 12, or 13 human biology (preferably advanced), Grade 11 or 12 chemistry or physics, Grade 11 mathematics for technology or for business and consumers; radiography - two credits in Grade 11 and/or 12 advanced mathematics and two credits in Grade 11 and/or 12 advanced English, one credit in Grade 11 or 12 advanced physics, one credit in Grade 11 or 12 advanced chemistry or biology, and two other science credits, general or advanced; respiratory technology - Grade 11 or 12 advanced physics, Grade 11 or 12 chemistry, and Grade 12 advanced mathematics.

*One-year certificates*
Ambulance and emergency care, dental assistant, health records technician, nursing assistant, pre-health science.
*Additional admission requirements:* ambulance and emergency care - Grade 11 or 12 biology; dental assistant - Grade 11 or 12 chemistry or physics, Grade 11 mathematics for technology or for business and consumers, Grade 11 or 12 biology (preferably advanced), and 30 wpm typing; health records technician - Grade 12 English, one Grade 11 or 12 science credit, Grade 11 or 12 mathematics for technology or for business and consumers or accounting, and one year typewriting (35 wpm); nursing assistant - Grade 12 English (preferably advanced), Grade 11, 12, or 13 human biology (preferably advanced).

*One-year postcertificate*
Dental hygiene.
*Additional admission requirements:* one of: successful completion of CAAT dental assistant program, or OSSD/OSSGD with Grade 11 or 12 biology and chemistry or the equivalent, plus completion of another dental assistant training program recognized by the Royal College of Dental Surgeons (Ontario), or mature-applicant status with appropriate upgrading plus certification or proof of eligibility for certification by the Ontario Dental Nurses and Assistants Association, and successful completion of the Healing Arts Radiation Protection (HARP) module, and at least one year of full-time work experience as a certified or certifiable dental assistant.

**• Technology**

*Three-year diplomas (technology)*
Air-water resources field technology (co-op); architectural (co-op); civil engineering (co-op); construction engineering (management) (co-op); control engineering (systems) (co-op); electrical engineering (co-op); electronics engineering (co-op); manufacturing engineering (co-op); mechanical engineering (mobile equipment) (co-op); science laboratory technology (co-op).
*Additional admission requirements:* air-water resources field technology, science laboratory technology - Grade 12 English, Grade 12 mathematics for technology, Grade 11 or 12 chemistry and physics; architectural, civil - Grade 12 mathematics for technology, Grade 11 or 12 physics; construction (management) - Grade 12 mathematics for technology; control engineering (systems), electrical, electronics - Grade 12 advanced mathematics, Grade 11 or 12 chemistry and physics; manufacturing, mechanical (mobile equipment) - Grade 12 mathematics for technology, Grade 11 or 12 physics and chemistry.

*Two-year diplomas (technician)*
Air conditioning refrigeration engineering, architectural, civil (drafting) engineering (co-op), construction (supervisor), electrical engineering (co-op), electronics engineering, electronics technician-robotics and process control, manufacturing engineering (co-op), mechanical (design) engineering (co-op), metallurgical engineering (co-op), motive power (automotive and diesel), stationary engineering 3rd and 4th class (practical and theory), survey (co-op).
*Additional admission requirements:* air conditioning, refrigeration engineering, architectural, construction (supervisor) - Grade 12 mathematics for technology; electrical, electronics, electronics technician-robotics and process control - Grade 12 mathematics for technology; civil (drafting) engineering, survey - Grade 12 mathematics for technology, Grade 11 or 12 physics; mechanical (design) - Grade 12 mathematics for technology; metallurgical - Grade 12 mathematics for technology; motive power - Grade 12 maqthematics for technology or for business and consumers.

*One-year certificates*
Construction carpentry techniques, motive power technician (parts merchandising).

*One-year postdiploma*
Electronics engineering technician/technology (biomedical).
*Additional admission requirements:* two-year electronics engineering diploma or three-year electrical, electronics, or control systems diploma or mature student status with extensive electronics background, standing in Grade 11 or 12 chemistry.

**• Alternative Learning**

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult calendar for details.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
Credit, career, special interest, and co-operative courses and workshops are offered in London and in 25 other communities served by the college. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and consult the college calendar for details.

*Co-operative education*
Several Fanshawe programs are operated on the co-operative education (co-op) plan. This plan integrates related on-the-job work experience with classroom theory during alternating periods of work and study. Such a system helps students orient themselves to the world of work while learning. It helps them develop their human-relations skills and job-search techniques, and usually results in a well-developed career plan before graduation. Further information is available from the Co-operative Education and Community Relations Division at the college.

*Co-operative Education and Community Relations*
This division provides integrated services through the following departments: Industrial Skills Development, Canadian Job Strategies, TIBI 1, TIBI 2, TIBI 3, Employer Sponsored Training, Futures, and Marketing Srvices.

**Further Information**
*Further information may be obtained by writing to*
Fanshawe College
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4100

*or by contacting offices of the college at any of the following Fanshawe College locations*
1460 Oxford St. E.
London, Ontario N5V 1W2
Telephone (519) 452-4100

Ireland Rd.
P.O. Box 10
Simcoe, Ontario N3Y 4K4
Telephone (519) 426-8260

R.R. #3
Woodstock, Ontario N4S 7V7
Telephone (519) 537-6051

10 Ontario Rd.
St. Thomas, Ontario N5P 3N4
Telephone (519) 633-1280

# George Brown College of Applied Arts and Technology

## Toronto

**President: Douglas E. Light**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 8 956 |
| Part-time | 37 449 |

George Brown College of Applied Arts and Technology serves the college-level education needs of the City of Toronto. From the outset its primary objective has been to educate people for employment now, and for a secure future.

The college operates five main campuses and offers nearly 200 programs to prospective students.

*Campus locations:*

Casa Loma Campus
160 Kendal Ave.
Toronto, Ontario
M5R 1M3

Nightingale Campus
2 Murray St.
Toronto, Ontario
M5T 1T6

College Street Campus
507 College St.
Toronto, Ontario
M6G 1A8

St. James Campus
200 King St. E.
Toronto, Ontario
M5A 3W8

Kensington Campus
21 Nassau St.
Toronto, Ontario
M5T 1M3

Continuing Education
258 Adelaide St. E.
Toronto, Ontario
M5A 1N1

**Programs Offered**

**• Arts and Science – General and Applied**

*Two-year diplomas*
Activation co-ordinator, child care worker, community worker, dance training, early childhood education, human services counsellor, theatre arts.

*Additional admission requirements:* activation co-ordinator, child care worker, community worker, early childhood education, human services counsellor – completion of questionnaire and interview; dance training, theatre arts – audition and interview.

*One-year certificates*
Basic employment training (basic training for skills development), English as a second language, English for science and high technology, headstart for the hearing impaired, industrial and vocational orientation, job readiness (BJRT), rehabilitation through education, straight truck driver, tractor-trailer driver.

*Additional admission requirements:* requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information. Straight truck driver, tractor-trailer driver – 18 years of age, with an Ontario driver's licence. Students must produce an Ontario Driver's Licence Conversion Form, available from any Ontario Driver Examination Centre.

Fashion Technology

*Three-year diplomas*
Apparel management, creative fashion design, jewellery arts, watchmaking.

*Additional admission requirements:* questionnaire and orientation interview may be required; jewellery arts – portfolio required.

*Two-year diplomas*
Commercial ceramics, gemmology, furniture production and design.

*Additional admission requirements:* questionnaire and orientation interview may be required.

*One-year diploma*
Jewellery repairs.

*One-year certificates*
Apparel pattern drafting, dressmaking (custom and alteration), fur (leather and suede), furniture (woodworking and finishing), furniture upholstery (repair), industrial power sewing, industrial power sewing machine mechanic, jewellery (precious-metal grinder and polisher, quartz watch servicing.

*Additional admission requirements:* requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

Graphic Arts

*Three-year diplomas*
Graphic arts printing technology, graphic design.

*Additional admission requirements:* graphic arts printing technology – Grades 11 and 12 English and mathematics, tests in mechanical reasoning and colour vision acuity; graphic design – portfolio and art test.

*Two-year diploma*
Printing technician, graphic sign design and production.

*Additional admission requirements:* Grades 11 and 12 English and mathematics, tests in mechanical reasoning and colour vision acuity.

*One-year certificates*
Commercial art, computer typesetter, offset printing, screen process printing, signwriting.

*Additional admission requirements:* requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

**• Business**

*Three-year diploma (six semesters)*
Business administration (options in accounting, data processing, marketing, small business), office systems administration.

*Additional admission requirements:* Grades 11 and 12 mathematics and English.

*Two-year diplomas*
Business (options in accounting, data processing, general, physical distribution, marketing), business diploma – insurance, computer programmer, court reporting (machine shorthand), property management, retail management, secretarial arts (options in general, executive, legal), secretarial arts (word processing), word processing – legal

*Additional admission requirements:* business, business diploma – insurance – Grades 11 and 12 mathematics and English; court reporting (machine shorthand), secretarial arts, secretarial arts (word processing) – Grades 11 and 12 English; property management – interview.

*One-year certificates*
Court reporting (stenomask), executive receptionist, junior programmer (three trimesters), sales, word processing operator.

*Additional admission requirements:* court reporting (stenomask) – interview, tests in English and voice; executive receptionist, word processing operator – Grades 11 and 12 English; sales – Grades 11 and 12 mathematics and English.

*One-year certificates*
Accounting assistant, bookkeeper-typist, clerk typist, commercial refresher, dicta-typist, junior programmer, secretary-shorthand, STEP (secretarial training and employment program), word processing operator, systems analyst.

*Additional admission requirements:* requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

**Hospitality**

*Two-year diplomas*
Culinary management, food and beverage management, hotel management.

*Additional admission requirements:* an orientation interview.

*One-year certificates*
Baking techniques, bartending, dining room service, food preparation general-basic, food preparation general-advanced, hotel front office and reception, retail meat cutting.

*Additional admission requirements:* requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

## • Health Sciences

*Three-year diplomas*
Dental technology, chiropody.

*Additional admission requirements:* Grade 12 English and chemistry, Grade 11 physics and biology. Manual dexterity test required.

*Two-and-one-half-year diploma*
Diploma nursing.
There are two intakes per year for this program: one in September and one in January.

*Additional admission requirements:* Grade 12 English, mathematics, and biology with 70% minimum, and Grade 11 chemistry with 70% minimum.

*Two-year diplomas*
Denture therapy, fitness instructor, orthotic/prosthetic technician.

*Additional admission requirements:* denture therapy – Grade 12 English and chemistry, Grade 11 physics and biology, manual dexterity test; fitness instructor – Grade 12 English and Grade 11 biology; orthotic/prosthetics technician – Grade 11 and 12 English, physics and biology, manual dexterity test.

*Two-year postdiploma*
Clinical methods in orthotics/prosthetics.

*Additional admission requirements:* graduate in orthotic/prosthetic technician, kinesiology, physiotherapy, physical education or other related programs, an interview.

*One-year diploma*
Dental assistant.

*Additional admission requirements:* Grade 12 English and chemistry, Grade 11 biology, typing at 30 wpm.

*One-year certificates*
Health care aide, nursery aide.

*Additional admission requirements:* requirements vary according to the program. Some programs may require less than an OSSGD. Contact the college for information.

*One-year postsecondary*
Pre-health sciences.

*One-year postdiploma*
Dental hygiene (expanded duties), dental hygiene, registered nurse – critical care, registered nurse – neonatal intensive care, registered nurse – occupational health nursing, registered nurse – operating room, registered nurse – rehabilitation nursing, teachers of nursing – long-term care, upgrading program for graduate nurses, mental health program.

*Additional admission requirements:* dental hygiene (expanded duties) – Ontario certification as a dental hygienist, one year of work experience, manual dexterity test, interview; dental hygienist – Ontario certification as a dental assistant, one year of work experience, dental science test.

## • Technology

*Three-year diplomas*
Air conditioning engineering technology, civil engineering technology, construction engineering technology, electrical engineering technology, electronics engineering technology (two calendar years), energy conversion technology, instrumentation engineering technology (two calendar years), mechanical engineering technology (drafting design), mechanical engineering technology (tool design and machine design).

*Additional admission requirements:* civil, construction, mechanical (drafting design), mechanical (tool design) – Grades 11 and 12 mathematics (business mathematics not included); electrical, electronics, instrumentation – Grades 11 and 12 English and mathematics (business mathematics not included); energy conversion technology – Grade 11 physics, Grade 12 mathematics and English.

*Two-year diplomas*
Air conditioning/refrigeration engineering technician, architectural technician (drafting), civil engineering technician, construction engineering technician (management), drafting technician, electrical engineering technician, electrical engineering technician (design CAD/CAM), electronics engineering technician, instrumentation engineering technician (industrial), mechanical engineering technician (building services drafting), mechanical engineering technician (drafting design – CAD/CAM), mechanical engineering technician (tool design), mechanical engineering technician (toolmaking), mouldmaking technician, piano technician, residential construction management, stationary power plant engineering, welding technician.

*Additional admission requirements:* acoustics, electrical, electrical (design), electronics, instrumentation (industrial), mechanical (toolmaking), stationary power plant engineering – Grades 11 and 12 English and mathematics (business mathematics not included); air conditioning, refrigeration, civil, construction (management), drafting technician, mechanical (building services drafting), mechanical (drafting design), mechanical (tool design) – Grades 11 and 12 mathematics (business mathematics not included); piano technician – audition and interview.

*One-year certificate*
Welding specialist.

*Additional admission requirements:* Grade 12 English and mathematics, specialization in welding.

*One-year certificates*
Appliance servicing, bricklayer pre-apprenticeship, building mechanical systems operator, business equipment servicing, carpenter general, drafting, electronics (audio equipment and systems), electronics (basic skills), electronics (digital equipment and systems), electronics (industrial control), electronics (office systems servicing), electronics (radio), electronics (video tape recorder), gas fitter, heating technician, hi-fi and TV servicing, industrial electronic controls (journeyman), industrial power sewing machine mechanic, instrumentation mechanic, machine shop, masonry, mechanical engineering drafting, refrigeration and air conditioning, stationary engineering (4th class), welding fitter, welding fitter refresher, welding operator, women into trades and technology.

*Additional admission requirements:* requirements vary according to the program. Many of these programs require less than an OSSGD. Contact the college for information.

## • Alternative Learning

*Academic upgrading, pre-health science.*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

*Apprenticeship*
Some of these programs are offered on a part-time or day-release basis as well as in the traditional pattern of 8 to 10 weeks at the college separated by on-the-job training. For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
George Brown College offers several hundred continuing education courses, both day and evening, throughout the year. Along with general interest courses, credit courses and refresher courses for professionals (those in skilled trades and high-technology areas), are available. The Continuing Education Department also co-ordinates special courses for various professional associations.

For general information, see "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section. Contact the Information Services Department at the college for brochures and specific information: (416) 947-9914.

*Training in Business and Industry*
This department co-ordinates the Futures program, the Canada Manpower Industrial Training Program (CMITP), the TIBI service for business and industry (through which specially developed and individualized packages of courses or programs are conducted on the client's premises), and the Ontario Management Development Program (OMDP) courses, several of which are available on a modular basis.

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**Further Information**

*Additional information is available by contacting*
Information Services Department
George Brown College of Applied Arts and Technology
Box 1015, Station B
Toronto, Ontario M5T 2T9
Telephone (416) 947-9914

# Georgian College of Applied Arts and Technology

## Barrie

**President: Wayne F.J. Busch**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 4 300 |
| Part-time | 17 000 |

Georgian College serves the Georgian Bay region. In addition to having three major campuses in Barrie, Orillia, and Owen Sound, the college maintains an office in Parry Sound.

*Campus locations:*
Owen Sound Campus
1150 8th St. E.
P.O. Box 700
Owen Sound, Ontario
N4K 5R4

Barrie Campus
One Georgian Dr.
Barrie, Ontario
L4M 3X9

Orillia Campus
825 Memorial Ave.
P.O. Box 2316
Orillia, Ontario
L3V 6S2

### Programs Offered

- **School of Design and Visual Arts**

*Three-year diplomas*
Design arts (options in creative art, graphic design, industrial design, interior design, and material arts, which offers additional options in ceramics and glass/metals, jewellery and metals, woods and plastics/textiles and weaving).

*Two-year diplomas*
Design arts (same options as three-year programs).

- **School of Career Development**

*Two-year diploma and one-year certificate*
The general arts and science program is divided into two basic core areas: language and humanities, and physical and social sciences.

*Academic upgrading*
This training is available at all three campuses. For programs, see the CAAT chart at the beginning of this section. For a general description, see "Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the calendar for details.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

- **School of Business**

*Three-year diploma*
Business administration, business administration – automotive marketing (co-op)(option to take this program in French), computer programmer/analyst (co-op), law and security administration.
*Additional admission requirements:* computer programmer/analyst – Grade 12 general level mathematics is required and English is strongly recommended. Applicants will be required to complete a standard aptitude test; law and security administration – Grade 12 general level English.

*Two-year diplomas*
Advertising, business (second-year options in marketing and accounting), business-information processing (co-op), fashion merchandising (co-op), secretarial arts (legal, medical).
*Additional admission requirements:* secretarial arts (legal, medical) – general secretary certificate or equivalent.

*One-year certificate*
General secretary, secretary (legal), secretarial (medical).

- **School of Health Sciences**

*Three-year diploma*
Nursing.
*Additional admission requirements:* two Grade 11 or 12 general level sciences (biology and either chemistry or physics), Grade 12 general level English and mathematics.

*Two-year diplomas*
Developmental services worker, dispensing optician, early childhood education.
*Additional admission requirements:* developmental services worker – Grade 12 general level English; dispensing optician – Grade 12 general level mathematics, Grade 11 general level physics; early childhood education – Grade 12 general level English.

*One-year certificates*
Dental assistant, nursing assistant.
*Additional admission requirements:* dental assistant – Grade 12 general level English and Grade 11 or 12 general level biology.

*One-year diploma*
Dental Hygiene
*Additional admission requirements:* graduate (with certification) of a recognized dental assisting program.

*One-year postgraduate certificate*
Recreation for special populations.

- **School of Engineering Technology**

*Three-year diplomas (technology)*
Civil aviation (air carrier management and operations, airport management and operations, air traffic services)(co-op), civil engineering (co-op), electrical engineering (co-op), electronics engineering, industrial engineering technology (co-op), mechanical engineering (co-op), resources engineering (co-op).
*Additional admission requirements:* Grade 12 general level English and mathematics required, Grade 11 or 12 general level science recommended.

*Two-year diplomas (technician)*
Building operations technician, civil engineering (co-op), concrete products technician (co-op), electrical engineering (co-op), electronics engineering, mechanical (drafting and industrial technician options in the second year) (co-op), survey (co-op).
*Additional admission requirements:* Grade 12 general level English and mathematics required, Grade 11 or 12 general level science recommended.

- **Great Lakes School of Marine Technology**

*Three-year diplomas (technology) (co-op)*
Marine engineering technology (co-op), marine navigation technology (co-op).
*Additional admission requirements:* engineering – Grade 12 general level English, mathematics, Grade 11 general level physics; navigation – Grade 12 general level English, mathematics, chemistry, Grade 11 general level physics.

- **School of Tourism and Hospitality**

*Three-year diplomas*
Hotel and resort administration (co-op), tourism management (marketing, planning, and development) (co-op).

*Two-year diploma*
Culinary management (co-op), hotel and resort operations (co-op).

*School of Continuous Learning*
Both credit and non-credit courses are offered to adult students in a number of locations throughout the Georgian Bay region. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section. Contact the School of Continuous Learning at the college for details.

*Co-operative education*
Georgian College operates many co-operative programs. These programs have both an academic element and a paid-work portion, which is taken in industry. The paid-work element may extend from three weeks to eight months, depending on the nature of the arrangement with industry.

### Additional Costs

Additional costs that must be borne by the student are as follows:
(a) textbooks and equipment, minimum $200 to a maximum of $1000 for first year;
(b) accommodation and board, $75 per week.

### Further Information

*Additional information is available from*
Roman Woloszczuk
Registrar

Cathy Neuss
Supervisor, Office Services

Doreen Holmes
Financial Aid Administrator

Georgian College of Applied Arts and Technology
One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951

*Information concerning the Owen Sound Campus may be obtained from*
R.G. Cameron
Manager, Student Services
Georgian College of Applied Arts and Technology
1150 8th St. E.
P.O. Box 700
Owen Sound, Ontario N4K 5R4
Telephone (519) 376-0682

*Information concerning the Orillia campus may be obtained from*
Nancy Dunlop
Supervisor, Registration Services
Georgian College of Applied Arts and Technology
825 Memorial Ave.
P.O. Box 2316
Orillia, Ontario L3V 6S2
Telephone (705) 325-2705

## Humber College of Applied Arts and Technology

## Toronto

**President: Robert A. Gordon**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 8 624 |
| Part-time | 75 000 |

Humber College offers a variety of programming at its ten locations, which serve the Etobicoke and York areas. The North and Lakeshore campuses offer a full range of postsecondary programs. The Queensway campuses offer a large selection of technical certificates and apprenticeship and career-oriented programs. The York-Eglinton Centre and Keelesdale campuses offer academic and commercial programs, English as a second language, and many community programs and part-time courses.

*Campus locations:*

North Campus
205 Humber College Blvd.
Etobicoke, Ontario

Humber Lakeshore Campus
3199 Lakeshore Blvd. W.
Toronto, Ontario

Queensway A Campus
56 Queen Elizabeth Blvd.
Toronto, Ontario

York-Eglinton Centre Campus
1669 Eglinton Ave. West
Toronto, Ontario

Queensway B Campus
70 Queen Elizabeth Blvd.
Toronto, Ontario

Osler Campus
5 Queenslea Ave.
Weston, Ontario

Queensway C Campus
829 The Queensway
Toronto, Ontario

Keelesdale Campus
88 Industry St.
Weston, Ontario

Woodbine Centre
500 Rexdale Blvd.
Etobicoke, Ontario

Sailing School
Humber Bay Park W.
Lakeshore Blvd.
Etobicoke, Ontario

### Programs Offered

**• Arts and Science – General and Applied**

*Diplomas*
Arena management, child care worker, community worker, culinary management, developmental services worker, early childhood education, early childhood education for the developmentally handicapped, equine studies, fashion arts (modelling, fashion, and cosmetic management), food industry technician, general arts and sciences, hotel and restaurant administration, landscape technician/technology, law and security administration, music, nature interpreter (postdiploma), recreation leadership, rehabilitation worker, retail floriculture, ski area operation, social service worker, travel and tourism, urban tree maintenance technician.

*Additional admission requirements:* many of the above require a medical examination, related experience, a pre-admission interview, and in some cases a test.

*Certificates*
Arts administration, equine coach, jockey training and exercise rider.

*Additional admission requirements:* see above.

*Creative arts diplomas*
Advertising and graphic design, audio-visual technician, creative photography, film and TV production, industrial design, interior design, journalism, package design, public relations, radio broadcasting, theatre arts.

*Additional admission requirements:* most of the above require related experience, a pre-admission interview, a portfolio or audition, and in some cases a test.

*Human studies diplomas and certificate*
General arts and science.

*Human studies academic certificates*
Academic upgrading (college preparatory), advanced English as a second language, job-readiness training, English as a second language.

*Additional admission requirements:* admission is open to any adult 19 years of age and over on a "first-come, first-served" basis. Most applicants are requested to take functional level testing, after an interview with an admissions officer. Advanced English as a second language requires two to three years' practical work experience in English, above and beyond completion of the basic program.

**• Business**

*Diplomas*
Accountancy (credits toward CGA/RIA), business administration (profile in marketing administration, microsystems management, operations management, and management systems), computer programming (co-op and continuous nonsemester), computer information systems, computer (systems analyst), general business (profiles in business management, personnel management, legal assistant), marketing (profile in merchandising management), office systems administration, retail management co-op, secretarial (executive, legal, medical), word processing supervisor.

*Additional admission requirements:* some of the above require skill prerequisites (*e.g.*, typing and/or shorthand) before entry. All business programs, except secretarial, require Grade 12 English and mathematics. Secretarial programs require Grade 12 English.

*Commercial certificates*
Business and commerce (accounting assistant, bookkeeper typist, clerk typist, dicta typist), microcomputer business applications, office systems operations.

*Additional admission requirements:* for some programs, a pre-admission interview and pretests in communications and mathematics are required at least one week before classes begin. The student should have a working knowledge of whole numbers, fractions, decimals, and percentages, and a good command of conversational English. All students are requested to take functional level testing.

**• Health Sciences**

*Diplomas*
Funeral service education, nursing.

*Additional admission requirements:* pre-admission interview (group or individual) and/or testing and health certificate (health history and physician's statement of health). Please check college brochures for specific academic and other additional requirements for programs listed in this area.

*Certificates*
Ambulance and emergency care, dying and bereavement, early childhood education (postdiploma), gerontology (postdiploma), human sexuality counselling and teaching, life-threatening illness, nursing assistant, pharmacy assistant, registered nursing (postdiploma), working with the aged (postcertificate).

*Additional admission requirements:* see requirements for health science diplomas.

- **Technology**

*Diplomas*
Aerial survey technician, air conditioning and refrigeration engineering, architectural (design) technician/technology, chemical engineering technology, chemical (industrial) engineering technology, chemical (laboratory) technician, chemical (microbiology) technology, civil engineering technician/technology, computer engineering technology, electrical (control) engineering technician, electronics engineering technician/technology, electro-mechanical engineering technician/technology, hydrographic survey technology, industrial (management) engineering technology, environmental systems engineering technology (energy management), instrumentation (industrial) engineering technician, manufacturing engineering technician/technology, mechanical (drafting design) engineering technician, mechanical (numerical control) technician, mechanical (solar) engineering technology, mechanical (tool and die) engineering technician, safety engineering technology, survey technician/technology.

*Additional admission requirements:* Grade 12 English, Grade 12 technical or academic mathematics, and a minimum of two credits in any combination of senior level science and program-related senior level technical courses. All credits should be on a general level.

*Technical certificates*
Cabinet making (basic), drafting, drafting refresher, electronics (digital systems), electronics (mobile radio), electronics (radio, hi-fi and TV servicing), industrial maintenance (packaging) mechanic, machine shop practice, marine and small-powered equipment mechanic, numeric control machine programmer/operator, pipe welding, precision instrument mechanic, welder fitter, welder refresher.

*Additional admission requirements:* functional level testing is required, and a pre-admission interview may be requested. A working knowledge of mathematics, fractions, decimals, mixed operations, measurement, and dimensions is recommended. In several programs, substitution, equations, formulas, and graphing (trigonometry) may also be required.

- **Alternative Learning**

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuous learning*
Continuous Learning and Development provides part-time studies and activities in more than 1 000 special interest areas. It offers credit and special interest courses and workshops, as well as seminars and conferences in response to a continuing liaison with business, industrial, government, and community organizations. In addition, each of the college's divisions endeavours to meet the needs of the community by offering specialized programs for credit purposes as well as courses designed to meet the general interests of the community. These courses are offered at all campus locations and the Neighbourhood Learning Centres.

**Further Information**

*For further information on admission requirements and details about full-time programs and facilities, please contact*
Office of the Registrar
Humber College of Applied Arts and Technology
P.O. Box 1900
Rexdale, Ontario M9W 5L7
Telephone (416) 675-5000

*For a calendar of continuing education courses, please contact*
Continuous Learning and Development
Humber College of Applied Arts and Technology
P.O. Box 1900
Rexdale, Ontario M9W 5L7
Telephone (416) 675-5005

*For information on and application forms for the Ontario Student Assistance Program, please contact*
Financial Aid Office
Humber College of Applied Arts and Technology
P.O. Box 1900
Rexdale, Ontario M9W 5L7
Telephone (416) 675-3111

# Lambton College of Applied Arts and Technology

## Sarnia

**President: Tony Wilkinson**

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 1 532 |
| Part-time | 10 000 |

Lambton College serves the Sarnia/Lambton County area.

*Campus locations:*

Modeland Road Campus
1457 London Rd.
P.O. Box 969
Sarnia, Ontario
N7T 7K4

Kettle Point Campus
P.O. Box 748
Forest, Ontario
(upgrading only)

Riverside Campus
265 N. Front St.
Sarnia, Ontario

Industrial Fire School
Lasalle Rd.
Sarnia, Ontario
(fire training for industry)

Mechanics Training Centre
K-Mart Shopping Centre
London Rd.
(automotive mechanics and small-engine repair)

**Programs Offered**

- **Arts and Science – General and Applied**

*Two-year diplomas*
Early childhood education, general arts and science (wide variety of options), law and security (pending approval), parks operation and services, radio, social service worker (pending approval), television and journalism arts.

*One-year certificates*
Art fundamentals, infant/toddler care and guidance.

*Additional admission requirements:* infant/toddler care and guidance – successful completion of the first year of, or graduation from, an acceptable early childhood education program. Each 10-week term is offered over two consecutive summers.

Note: Students with an appropriate selection of OACs may be admitted directly to the second year of any general arts and science programs.

- **Business**

*Three-year diplomas*
Business administration (majors in accounting, marketing, combination accounting/marketing), computer programmer analyst.

*Additional admission requirements:* computer programmer analyst – year 4 mathematics.

*Two-year diplomas*
Business (majors in accounting, marketing), secretarial arts (majors in executive, medical), computer programmer.

The business and business administration programs have a common first term, enabling new students to delay selecting their programs until the beginning of the second term. Secretarial arts has a common first year, with specialization in the second year. Students can then make an enlightened decision about the choice of their programs.

*One-year certificate*
Secretarial.

### • Health Sciences

*Two-year diplomas*
Nursing (six terms; three-year program). Graduates of this program are able to plan and give care to individuals of all ages, and to function as general staff nurses in health care agencies in which leadership is provided by experienced personnel.

Selected clinical experiences provide the opportunity for students to relate theory to nursing practice. Students receive clinical experience in a variety of community agencies, general hospitals, public health agencies, doctors' offices, and senior citizens' and extended care facilities.

Successful completion of this program qualifies graduates to write the registration examinations of the College of Nurses of Ontario.

*Additional admission requirements:* OSSD with at least 70% at the general level and 60% at the advanced level in year 4 English and mathematics; biology, chemistry, and physics year 3, year 4, or OAC; or the equivalent. Preference given to applicants who demonstrate a consistent academic performance. Interviews will be held. Mature students may also be considered for admission.

Medical laboratory technology.
The MLT program is split between the college and an associated hospital laboratory. The year at the college emphasizes the theoretical aspects of clinical chemistry, clinical microbiology, haematology, histotechnology, and immunahaematology. Laboratory sessions are used to illustrate the theory. The year in a hospital laboratory setting covers the practical aspects of the program. The preparatory year is an academic year to prepare students for an approved medical lab technology program in Canada.

*Admission requirements:* OSSD, or equivalent, with at least 60% standing in each required subject: English, chemistry, and mathematics year 4; biology year 3, 4, or OAC; physics year 3, 4, or OAC.

*Year 1 (Academic Year) admission requirements:* OAC, or equivalent, with at least 60% in each required subject: English, chemistry, mathematics, biology, physics year 3, year 4 (OAC physics is also recommended). A beginning level in computers is also required. Proof of medical suitability to the program is essential. Year 1 MLT is subject to enrolment limitations. Students are selected on the basis of grades and an interview.

*Year 2 (Clinical Year):* The clinical year is spent in an associated hospital laboratory of your choice, where the practical aspect of the program is stressed. Upon successful completion of the program the students write the national qualifying examination of the Canadian Society of Laboratory Technologists for the Registered Technologist (RT). The RT is acceptable anywhere in Canada and also recognized in the U.S.A. and Britain, among other countries.

### • Technology

*Three-year diploma*
Engineering technology (chemical, electronics, industrial hygiene, mechanical, instrumentation and control).

*Additional admission requirements:* satisfactory standing in year 3 physics and year 4 chemistry, English, and mathematics, or the equivalent.

*Two-year diplomas*
Engineering technician (chemical, mechanical drafting), industrial instrumentation technician.

*Additional admission requirements:* engineering technician (chemical) – satisfactory standing in year 3 physics and year 4 English, chemistry, and mathematics, or the equivalent; engineering technician (mechanical drafting) – satisfactory standing in year 3 physics, year 4 English and mathematics, and three drafting credits, or the equivalent.

*One-year certificate*
Process operations program.
This program is specifically designed to prepare secondary school graduates for employment in the process industries. Planned in co-operation with the process industries in Sarnia's "Chemical Valley", this program provides the student with an understanding of the process equipment employed and of the principles of operation involved.

*Additional admission requirements:* satisfactory standing in year 3 physics and year 4 chemistry, English, and mathematics, or the equivalent.

Note: Students with satisfactory standing in Grade 13 chemistry, English, mathematics (2), and physics may be admitted to the second year of some technology programs, but will be required to take any first-year courses in which they are deficient.

### • Co-operative Education

The college offers students the opportunity to gain insight into careers through work or work-like experiences such as field experience, internship, clinical experience, experiential learning, and co-operative education.

The purpose of co-op is to provide students with valuable work experience that will help them find placement upon graduation, provide an opportunity for them to do some career sampling and put the theory learned in the classroom to practical use, and enable them to earn while they learn.

Depending on the program area, a student may take part in the *alternating* or the *parallel* pattern for co-operative work experience. The *alternating* method of co-op is utilized in the technology and computer programmer analyst programs. This means that the student works full-time for a term of four months and attends college full-time as an on-campus student the next term. The *parallel* method of co-op is utilized in the business, secretarial arts, and general arts and science programs. This means that the student attends classes and participates in a work experience during the same college term.

### • Alternative Learning

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult college calendar for details.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
Lambton College offers over 350 credit and non-credit courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and consult college continuing education brochure for details.

*Vocational training*
A wide variety of programs is offered, including academic upgrading to the equivalent level of Grade 12, clerical and stenographic courses, English as a second language, specialized skill courses, welder fitter, appliance servicing, marine and small engine mechanic, instrumentation mechanic, and the training in business and industry programs. Process operations is also offered in co-operation with the Technology Division.

An industrial day-release program is offered in co-operation with local industry and the Apprenticeship Branch of the Ministry of Colleges and Universities.

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### Additional Costs

The estimated cost of books, supplies, and instruments for the academic year for postsecondary students ranges from $300 to $600. There is also a $46.80 student activity fee, an $11 registration fee, an $18 graduation fee, and a $14.60 athletic fee. Co-op students in business, technology, parks operation, and services also pay a $50 fee for the co-op term.

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### Further Information

*For further information regarding Lambton College, please contact*
Manager of Public Relations
Lambton College of Applied Arts and Technology
1457 London Rd.
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751

## Loyalist College of Applied Arts and Technology

### Belleville

**President: Herbert Young**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 2 600 |
| Part-time | 8 800 |

Loyalist College serves the Quinte region of Ontario, comprising the counties of Hastings, Lennox and Addington, Prince Edward, and Northumberland, except the town of Cobourg and the western townships of Northumberland.

**Programs**

**• Arts and Science – General and Applied**

*Two-year diplomas*
Advertising, business-marketing, broadcast journalism, business-sales, developmental services worker, early childhood education, general arts and science, law and security administration, photojournalism, print journalism, radio broadcasting, recreation leadership (leisure services co-ordinator), social service worker, television broadcasting.
*Additional admission requirements:* advertising, early childhood education, law and security administration, recreation leadership (leisure services co-ordinator), social services worker, radio broadcasting, television broadcasting – all applicants may be required to complete a questionnaire. Also, applicants for radio broadcasting and broadcast journalism may be required to submit a voice tape. Applicants to business-marketing and business-sales must have credits in Grade 12 general or advanced English and mathematics, or qualify as mature students. Although interviews are not part of the selection process, applicants are encouraged to attend career counselling sessions.

**• Business**

*Three- and two-year diplomas*
Accounting, business administration, data processing, hotel and restaurant management.

*Two-year diplomas*
Assessment, appraisal and real estate management, computer programmer (64 weeks – non-semestered), secretarial arts (options in medical, legal, executive).

*One-year certificate*
Secretarial science, microcomputer business applications.

**• Health Sciences**

*Three-year diploma*
Nursing.
*Additional admission requirements:* OSSD including credits in Grade 11 or 12 chemistry (general or advanced), Grade 11 biology or physics (general or advanced), Grades 11 or 12 mathematics (general or advanced), Grade 11 and 12 English (general or advanced). Mature students (19 years of age and over) who do not meet the academic criteria or who do not have the equivalent will be counselled on an individual basis and assessed for academic competency. All applicants are required to complete a questionnaire. (Since this program is usually over-subscribed, applicants are urged to apply before March 1. Health review required before registration.)

*One-year certificate*
Nursing assistant.
*Additional admission requirements:* OSSD including Grade 11 or 12 general or advanced biology and Grade 12 general or advanced English. Mature students (19 years of age and over) who do not meet the academic criteria or who do not have the equivalent will be counselled on an individual basis and assessed for academic competency. Health review required before registration.

*Certificate of achievement*
Health care aide.
This is a 16-week course to prepare persons to function creatively for residents in nursing homes, homes for the aged, and similar facilities.
*Special admission requirement:* Grade 10 minimum.

**• Technology**

*Three-year diplomas (engineering technology)*
Chemical, civil, electronic, mechanical (manufacturing) engineering technology.
*Additional admission requirements:* Grade 12 general or advanced mathematics and English, Grade 11 physics strongly recommended. Applicants should have Grade 12 general or advanced chemistry if they are applying to the chemical engineering technology program.

Direct access to the second year of the three-year programs may be granted for relevant credits from Grade 13 (or OACs), other community colleges, universities, or other educational institutions at the discretion of the School Director. Refer to Loyalist's current calendar for specifics. Official transcripts must be provided.

*Two-year diplomas (engineering technician)*
Architectural drafting, chemical engineering, civil engineering, construction engineering, electronic engineering, resources technician (environmental), survey technician. A third-semester manufacturing option is available as part of the mechanical engineering technician program.
*Additional admission requirements:* Grade 12 general or advanced mathematics required for all programs; architectural drafting, civil, construction, survey technician – Grade 11 general or advanced physics and drafting recommended; electronic – Grade 11 general or advanced physics and Grade 12 general or advanced English recommended; chemical, resources technician (environmental) – Grade 12 general or advanced chemistry and Grade 11 general or advanced physics recommended; mechanical – machine shop experience and drafting credit recommended.

*One-year certificates (skill programs)*
Cabinet-making (48 weeks), electronics, industrial laboratory assistant (40 weeks), industrial maintenance mechanic (48 weeks), machine shop (40 weeks), radio/hi-fi/TV servicing (48 weeks), welder-fitter (40 weeks). Other skill-training courses may be offered as demand and facilities permit. Consult the college calendar or phone for more information.
*Special admission requirements:* electronics, radio/hi-fi/TV servicing – Ontario Grade 10 (OSSD preferred); industrial laboratory assistant – OSSD with mathematics and chemistry background; industrial maintenance mechanic, machine shop – Ontario Grade 10 (OSSD preferred); welder-fitter – Ontario Grade 10 or equivalent.

**• Alternative Learning**

*Academic upgrading*
The college offers a testing program to help determine academic standing prior to beginning an upgrading program. Consult the college calendar for details.

*Apprenticeship*
Loyalist College offers classroom instruction for the apprenticeship programs offered by the Apprenticeship Branch of the Ministry of Colleges and Universities. For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
Loyalist College offers many courses leading to certificates and diplomas, including a wide range of co-operative courses. Interest and hobby courses are also offered at the Belleville Campus and at many high schools throughout the four counties served by Loyalist College. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section, and the consult college calendar for details.

**Further Information**
*For further information contact*
Office of the Registrar
Loyalist College of Applied Arts and Technology
Wallbridge-Loyalist Rd.
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 962-9501

# Mohawk College of Applied Arts and Technology

## Hamilton, Brantford, Stoney Creek

**President: Keith L. McIntyre**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 11 855 |
| Part-time | 56 700 |

Mohawk College serves much of the industrial heartland of southwestern Ontario, including Hamilton-Wentworth, Brant County, and the Haldimand portion of the Haldimand-Norfolk Region.

*Campus locations:*
Mohawk College's Fennell Campus is located on Hamilton's mountain. The college operates a Health Sciences Education Centre at the Chedoke Campus in Hamilton and a nursing campus in Brantford. The Brant-Elgin Campus in Brantford and the Saltfleet Campus in Stoney Creek offer adult training programs; however, a number of postsecondary programs have been introduced at the Brant-Elgin and Saltfleet campuses. The Wentworth Campus and the English-Language Centre are both located in downtown Hamilton. At Hagersville in the Haldimand-Norfolk region, Mohawk College operates an Education Information Centre. In conjunction with McMaster, the college operates an Education Information Centre, located in the Hamilton Public Library complex in the heart of the city.

**Programs offered**

**• Community Services and Health Care**

*Three-year diplomas*
Advertising, applied music, child care worker, television broadcasting.

*Additional admission requirements:* Grade 12 English, program questionnaire, interview/audition, and orientation.

Occupational therapy.
This diploma program is designed to educate fully qualified occupational therapists at the entry level. Students will be required to complete the 33-month program at Mohawk College and then immediately proceed to McMaster University to complete the baccalaurete health science degree. The B.H.Sc. is a mandatory requirement for graduation.

*Additional admission requirements:* good standing in Grades 11 and 12 advanced level English, two Grade 11 or 12 advanced level senior sciences (physics, chemistry, or biology), one mathematics credit at the general or advanced level in Grade 11 or 12, interview, autobiographical letter, and tests. Applicants will be considered on an individual basis.

Physiotherapy.
During second and third years, students are based in the Physiotherapy School at the Chedoke Hospital and instruction is given by members of the Faculty of Medicine (McMaster University), Mohawk College faculty, and other medical resource people. Students will be required to complete the 33-month program at Mohawk College and then immediately proceed to McMaster University to complete the baccalaurete health science degree. The B.H.Sc. is a mandatory requirement for graduation.

*Additional admission requirements:* good standing in Grade 12 advanced level English, Grades 11 and 12 advanced level mathematics, two Grade 11 or 12 advanced level sciences (physics, chemistry, or biology), interview, tests.

*Two-and-one-half to three-year diploma*
Nursing.
This program leads to a Diploma of Nursing and, upon successful completion of the examinations set by the College of Nurse of Ontario, certification as a registered nurse.

*Additional admission requirements:* good standing in Grades 11 and 12 advanced level English, two Grades 11 and/or 12 advanced level sciences (physics, chemistry, or biology), two other Grades 11 and/or 12 credits at the advanced level, interview, tests. Applicants with any of these credits at the general level will be considered on an individual basis.

*Two-year diplomas*
Broadcast journalism, early childhood education, general arts and science, harness horse industry technician, law and security administration, municipal planning and development, radio broadcasting, recreation leadership, social services worker.

*Additional admission requirements:* Grade 12 English, program questionnaire, interview, and orientation.

**• Business and Communications**

*Three-year diploma*
Business administration (optional third-year specialization in accounting and marketing).

*Additional admission requirements:* Grades 11 and 12 algebra-based advanced level mathematics, Grades 11 and 12 advanced level English, and a minimum of nine additional senior level credits.

*Two-year diplomas*
Accounting (co-op or non-co-op), general business (co-op or non-co-op), insurance, marketing (co-op), office administration (executive, legal, medical).

*Additional admission requirements:* accounting, general business (co-op or non-co-op), insurance, marketing (co-op) – Grade 12 English and mathematics, ten additional senior level credits, office administration (executive, legal, medical) – Grade 12 English.

*One-year certificate*
Medical transcriptionist.

**• Engineering and Health Technology**

*Three-year diplomas (technology)*
Architectural (co-op), chemical engineering (co-op), civil engineering (co-op), computer electronics engineering (co-op), computer systems (co-op), electrical control engineering (co-op), energy systems engineering (co-op), electronics engineering (co-op), industrial management (co-op), mechanical engineering (production and design options, co-op), metallurgy and material engineering (co-op), textile management (co-op), transportation planning (co-op).

*Additional admission requirements:* advanced level English, Grades 11 and 12 advanced level mathematics, and Grades 11 and 12 advanced level physics and chemistry. Applicants who have taken these subjects at the general level will be considered on an individual basis. Under certain conditions, a technical subject taken at an acceptable level may be substituted for chemistry or physics.

Applicants for the computer systems technology program and the transportation planning technology program must have Grade 12 advanced level English and Grades 11 and 12 advanced level mathematics.

Technology applicants who have taken mathematics at the Grades 11 and 12 general level may, if accepted, be required to take a summer preparatory mathematics course. Exemption from the preparatory mathematics course may be obtained by writing a mathematics test, which will determine the student's mathematical functioning level.

*Three-year diploma (health)*
Medical laboratory technology.
This three-year program leads to a diploma qualifying students to write the General Certificate Examination of the Canadian Society of Laboratory Technologists.

*Additional admission requirements:* good standing in Grades 11 and 12 advanced level English and mathematics, two advanced level sciences (chemistry and one of biology or physics) in Grade 11 or 12, plus two additional Grade 11 or 12 advanced level courses, interview, and tests. Hospital laboratory visitation (as per Mohawk College listing) is also required prior to interview.

*Two-year diplomas (technician)*
Architectural (co-op), chemical, civil engineering (co-op), construction engineering (co-op), data processing (microcomputer or mainframe options) (co-op or non-co-op), electrical systems engineering, electronics engineering, industrial engineering, instrumentation, materials testing (co-op), mechanical automation (fluid power).

*Additional admission requirements:* Grade 12 mathematics, and English, physics, chemistry, or a technical subject taken at the Grade 11 level or higher.

*Two-year diploma (health)*
Radiography.
This program prepares the majority of students for radiographic work in hospital departments.

The academic year consists of eleven months, with one month's holiday. Year 1 constitutes the first year of professional training and may potentially be used as credit toward university studies.

Upon graduation from the program, students will be required to write the CAMRT (Canadian Association of Medical Radiation Technologists) examination in order to become eligible for certification.

*Additional admission requirements:* good standing in two advanced level mathematics, two advanced level languages (English or French), one advanced level physics, and one of chemistry or biology, all in Grade 11 or 12, plus two other general or advanced level science credits, interview (visit to a radiography department required prior to interview), tests.

*One-year postdiploma*
Diagnostic ultrasound.

*Additional admission requirements:* all applicants must be graduates of a minimum two-year paramedical program, *i.e.*, radiography, medical laboratory, or nursing.

**• Skills Development**

*Three-year (co-op)/experiential learning*
Fitter welder, industrial electrician, industrial ma-

chinist, industrial mechanic, tool and die craftsman.

*Additional admission requirements:* Grade 12 English and mathematics, machine shop specialization recommended, aptitude test.

*Two-year diplomas (hospitality management)*
Food and beverage management (co-op), travel and tourism.

*Additional admission requirements:* food and beverage management – Grade 12 English and mathematics; travel and tourism – Grade 12 English. Program questionnaire for both.

*One-year certificates*
Parts management and merchandising, stationary engineer (class 4 and 3).

*Additional admission requirements:* parts management and merchandising – Grade 12 English, physics, chemistry, or a technical subject taken at the Grade 11 level or higher, Grade 11 mathematics; stationary engineer – Grade 12 English and mathematics, Grade 11 or 12 chemistry and physics.

## Brant-Elgin Campus

Brant-Elgin Campus in Brantford offers the following diploma programs: early childhood education, executive secretary, general business, graphic arts production co-ordinator, law and security administration. In addition, nursing may be taken at the Brantford General Hospital campus.

*Three-year diplomas*
Graphic arts production co-ordination.
This program trains potential first-line management supervisors for the graphic arts industry.

*Additional admission requirements:* Grade 12 English and mathematics, program questionnaire, colour test.

Packaging technology.

*Additional admission requirements:* Grade 12 English and mathematics.

- **Alternative Learning**

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Co-operative education*
In 1987, 27 postsecondary programs were co-op. Students alternate two or three four-month terms of paid work experience with their regular academic semesters.

The Department of Co-operative Education serves as the liaison between students, employers, and the students' academic department. Students within the co-op education program are required to successfully complete a specified number of work terms, receive a satisfactory evaluation from their employer, complete an acceptable work term report, and adhere to all the rules governing Mohawk's co-op education program.

The availability of the co-op system of study is indicated after each program listing.

*Experiential learning*
Programs are being developed in the experiential learning mode. The college is pursuing the concept of granting credit for competencies acquired in the work field. Several programs have integrated experiential learning components into their curricula. These include: fitter welder, industrial electrician, industrial machinist, industrial mechanic, tool and die craftsman, and data processing.

*Short Programs – Adult Training*
In addition to regular diploma programs, the college offers a great variety of short programs designed to meet the changing needs of business and industry and to provide upgrading job skills for various segments of the community.

*Admission requirements:* applicants must be 17 years of age and have been out of school for one year or have an OSSD.

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**Further information**
*For further information on admission requirements and details about programs and facilities, please contact*
Registrar or Liaison Department
Mohawk College of Applied Arts and Technology
Fennell Ave. and West 5th
P.O. Box 2034
Hamilton, Ontario L8N 3T2
(416) 575-2000
(416) 575-2115

*For information on and application forms for student awards and loans, please contact*
Financial Aid Administrator
Division of the Registrar
Mohawk College of Applied Arts and Technology
Fennell Ave. and West 5th
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2135

# Niagara College of Applied Arts and Technology

## Welland

**President: Jacqueline P. Roberts**

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 3 709 |
| Part-time | 23 874 |

Niagara College serves the Niagara region and offers a broad range of programs housed in modern educational facilities.

In 1979 the college was designated the official bilingual college in Southern Ontario. As a result several programs, including bilingual secretary, early childhood education, and tourism, are offered as bilingual programs.

*Campus locations:*
All postsecondary courses are offered at the main campus in Welland, with the exception of:
Horticultural technician, offered at
Horticultural Centre
Ivan D. Buchanan Hall
360 Niagara St.
St. Catharines, Ontario L2M 4W1

Theatre arts, offered at
Niagara College Theatre Centre
54 Empire St.
Welland, Ontario L3B 2L4

Hotel and restaurant administration, offered at
Rainbow Hotel Centre
5755 River Rd.
Niagara Falls, Ontario L2G 3K9

Nursing, offered at
Mack Nursing Education Centre
178 Queenston St.
St. Catharines, Ontario L2R 2Z7

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**Programs offered**

- **Arts and Science – General and Applied**

*Three-year diploma*
Broadcasting – radio and television.

*Additional admission requirements:* questionnaire, interview.

*Two-year diplomas*
Early childhood education/*éducation des petits* (bilingual), educational resources technician, fashion arts, general college, human relations, interior decorating, journalism-print, law and security administration, library technician, social service worker, theatre arts.

*Additional admission requirements:* early childhood education, social service worker – questionnaire, interview; theatre arts – interview; educational resources technician, interior decorating, law and security administration – questionnaire.

*Two-year diplomas (third year optional)*
Interior design, theatre arts.

*One-year postdiploma*
Infant care and education.

*Additional admission requirements:* diploma in early childhood education or equivalent.

**• Business**

*Three-year diplomas*
Business administration – also offered as January start – (second- and third-year specialization in data processing, financial, industrial (co-op), marketing (co-op), personnel management and industrial relations (co-op)), hotel and restaurant administration.

*Additional admission requirements:* business administration – Grade 12 English and mathematics, with 60% at the advanced level or 70% at the general level.

*Two-year diplomas*
Computer programmer, bilingual secretary (co-op), business – accounting, (co-op), business – sales and merchandising (business programs also offered starting in January), legal assistant (co-op), retail management (co-op), secretarial arts (co-op), tourism – tours and attractions (co-op), *tourisme – circuits et attraits touristiques* (bilingual) (co-op).

*One-year certificates*
Secretarial studies.

*Additional admission requirements:* typing speed 40 wpm.

**• Health Sciences**

*Three-year diploma*
Nursing.

*Additional admission requirements:* two general level science credits (Grade 12 chemistry and either Grade 11 or 12 biology or physics preferable), written autobiographical sketch, satisfactory health exam. Applicants must have a minimum of 60% at the advanced level or 70% at the general level in sciences.

*Two-year diplomas*
Dental hygiene (one year following a one-year certificate program), health records technician.

*Additional admission requirements:* dental hygiene – certification as a dental assistant, Grade 12 English, senior level biology with 60% at the advanced level or 70% at the general level, senior level chemistry and/or physics, ability to demonstrate skill in radiographic techniques, one year of related experience, CPR certificate, satisfactory health exam, questionnaire, test; health records technician – interview, typing speed 25 wpm, questionnaire.

*One-year certificates*
Ambulance and emergency care, dental assistant, health sciences preparatory, medical transcriptionist (health records).

*Additional admission requirements:* ambulance and emergency care – two senior level sciences, preferably chemistry and biology. Before admission the applicant must submit an information sheet, possess an Ontario Class "F" driver's license, possess a standard First Aid Certificate and a certificate as a Basic Rescuer in Cardiopulmonary Resuscitation (CPR) issued by the Canadian Heart Foundation, attend an orientation session and personal interview, physical fitness test, respond to a questionnaire; dental assistant – Grade 12 English, Grade 11 or 12 biology, Grade 12 chemistry with 60% at the advanced level or 70% at the general level in the two sciences, completion of a pre-information sheet sent by the Admissions Office, CPR certificate, proof of having visited a dental office to learn more about this career; medical transcriptionist (health records) – 40 wpm typing and interview.

**• Technology**

*Three-year diplomas (technology)*
Chemical engineering, computer engineering, construction engineering, electrical engineering (power systems), electronics engineering, manufacturing engineering, mechanical engineering.

*Additional admission requirements:* construction engineering – Grade 12 mathematics; chemical, computer, electrical, electronics, mechanical engineering – Grade 11 physics and Grade 12 mathematics and chemistry, with a minimum of 60% at the advanced level or 70% at the general level in mathematics, physics, and chemistry; manufacturing engineering – Grade 12 mathematics, senior level physics.

*Two-year diplomas (technician)*
Chemical engineering, electrical engineering, electronics engineering, horticultural technician, industrial engineering technician – quality control (non-semestered), mechanical engineering technician (drafting design), survey.

*Additional admission requirements:* Grade 12 mathematics; mechanical engineering technician (drafting design) – one drafting credit; industrial engineering technician – quality control, – senior level English, mathematics, physics, chemistry.

**• Alternative Learning**

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. For further details, consult the college calendar.

*Adult training*
Programs offered in adult training are designed to meet the changing demands of business and industry and provide a learning situation whereby persons may be prepared for upward job mobility or entrance to other levels of learning. Contact the college for information on programs offered.

*Admission requirements:* Applicants must be 17 years of age and out of school for one year or have an OSSD.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
The college offers a wide variety of both credit and non-credit courses in Welland, St. Catharines, Niagara Falls, and smaller centres throughout the Niagara Region. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and consult the college calendar for details.

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**Further Information**
*Please address inquiries about admission requirements and specific programs to*
Admissions Officer
Niagara College of Applied Arts and Technology
Woodlawn Rd. P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone: (416) 735-2211 ext. 542, 544

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# Northern College of Applied Arts and Technology

## Haileybury, Kapuskasing, Kirkland Lake, Moosonee, South Porcupine (Timmins)

**President: J.H. Drysdale**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 2 875 |
| Part-time | 8 916 |

Northern College serves the districts of Cochrane and Temiskaming in northeastern Ontario up to the Hudson Bay and James Bay coasts. The college has five campuses, each near a major centre in the territory: Haileybury School of Mines, Kapuskasing Campus, Kirkland Lake Campus, Porcupine (Timmins) Campus, and the James Bay Education Centre (Moosonee) Campus.

*Campus locations:*
The Haileybury School of Mines is located in the town of Haileybury, overlooking Lake Temiskaming, 480 kilometres north of Toronto.

The James Bay Education Centre is located in Moosonee.

The Kapuskasing Campus is located in the city of Kapuskasing.

The Kirkland Lake Campus is located in the city of Kirkland Lake, 48 kilometres west of the Quebec border and 600 kilometres north of Toronto.

The Porcupine Campus is located on Lake Porcupine, in a suburb of Timmins.

**Campus Program Specializations**

### Haileybury School of Mines

At Haileybury, students may choose from a broad range of mining specializations: mining technology (a broad curriculum integrating geology, mining, and metallurgy), industrial instrumentation (process measurement and control), and mine maintenance technology.

### James Bay Education Centre

The James Bay Education Centre was originally designed as an experiment in frontier schooling and is now emerging as a Native education centre for the peoples of the James and Hudson bays. It contains a gym, library, workshops, classrooms, day care centre, and cafeteria.

## Kapuskasing Campus

The Kapuskasing Campus offers primarily business postsecondary programs, adult training, and continuing education programs: bilingual secretarial arts, business administration (French and English), diploma nursing (French and English), secretarial arts (French and English), and the first year of data processing (French and English), with a transfer to the Kirkland Lake Campus. The Kapuskasing Campus is the centre for distance-learning programs.

## Kirkland Lake Campus

The campus's emphasis is on technological programs: civil technician and technology, computer process control (postdiploma program for electronics technicians), computer science technology, data processing, electronics technician and technology, electrical technology, general and wood-products business administration (French and English), hospitality and food service administration, mechanical technician and technology, nursing, secretarial science/word processing (French and English), and welding engineering technician/technology.

## Porcupine Campus

The Porcupine Campus has the most varied program offerings of the campuses, with programs in applied arts, technology, business, and nursing. Program specializations include the following: architectural technician and technology, bilingual secretarial arts, business administration (French and English), child care (French and English), developmental services worker (French and English), early childhood education (French and English), electrical technician, electronics technician, fine arts and crafts, Native drug and alcohol abuse counsellor, Native recreation worker, Native social services worker, nursing, registered nursing assistant, secretarial arts (French and English), social services (French and English), and surveying technician and technology. Facilities to accommodate these programs include studios for sculpting, pottery, drawing, and painting; a well-equipped weaving room; a photographic studio and lab; and a day care centre, The Northern Caboose. The Porcupine Campus is also the administrative centre for the college.

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### Programs Offered

**• Arts and Sciences – General and Applied**

*Three-year diploma*
Child care worker (French and English).

*Two-year diplomas*
Developmental services worker (French and English), early childhood education (French and English), fine arts and crafts, Native drug and alcohol abuse counsellor, Native recreation worker, Native social services worker, social services worker (French and English).

*One-year certificate*
General arts and science, general vocational preparation, Native core program, special constable.

**• Business**

*Three-year diplomas*
Business administration (accounting, general, marketing, wood products; options in French and English), data processing, secretarial science (general, medical, legal; options in English and bilingual).

*Two-year diplomas*
Accountancy and marketing, business (accounting), business (hospitality administration and food services, French and English), secretarial arts (general, medical, legal).

*One-year certificates*
Clerk-typist, dicta-typist, secretarial arts.

**• Health Sciences**

*Diploma nursing.*
Diploma nursing is a two-and-one-half-year program at the Kirkland Lake Campus and a three-year program at the Porcupine, Kapuskasing, and James Bay Education Centre campuses.

*One-year certificate*
Nursing assistant.

*Special admission requirements:* applicants must be at least 17 years of age and have proof of successful completion of Grade 12 of the four- or five-year secondary school program or equivalent.

**• Technology**

*Three-year technology diplomas*
Architectural, civil, computer science, electrical, electronics, mechanical, mine maintenance, mining engineering, survey, welding (inspection).

*Two-year technician diplomas*
Architectural, civil, electrical, electronics, industrial instrumentation, mechanical, mine maintenance, mining engineering, survey, welding (inspection).

*One-year certificate*
Computer process control, mineral exploration assistant.

**• Alternative Learning**

*Academic upgrading*
Northern offers upgrading programs in both English and French. For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Contact the college for details.

*Adult training*
The college offers modularized business and commerce skill programs that may lead to certification, as well as offering commercial refresher and technical skill programs. Contact the college for details.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
Credit and non-credit courses are offered at all five campuses and in eight satellite centres in northeastern Ontario. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and consult the college calendar, "Special Programs Division", for details.

*Management Development*
More than 60 courses specifically tailored to meet the professional development needs of management are available through the Special Programs Division. Several of these courses are also available in French. The department provides a consulting and referral service to help identify business and industry needs for training programs at the supervisory level. A brochure on the Management Development Program is available.

*Modular Training*
This is a co-operative effort between the college and the Apprenticeship Branch of the Ministry of Colleges and Universities. The program centres on the modular training package for stationary engineers, first to fourth class.

*Training in Business and Industry*
The purpose of this program is to work with employees who wish to be upgraded and, in some instances, retrained on the job to increase their employability and flexibility. Arrangements for registration may be made by management, staff organization, unions, or other groups of employees interested in this type of training. Detailed information is available from the Special Programs Division.

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**Further Information**

Director of Student Services
Porcupine Campus, Northern College
P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211

Student Affairs Officer
Haileybury School of Mines, Northern College
640 Latchford
Haileybury, Ontario P0J 1K0
Telephone (705) 672-3376

Principal, Kapuskasing Campus
Northern College
3 Aurora Ave.
Kapuskasing, Ontario P5N 2Y3
Telephone (705) 335-8504

Principal, James Bay Education Centre
Northern College
P.O. Box 30, First St.
Moosonee, Ontario P0L 1Y0
Telephone (705) 336-2913

Registrar and Director of Student Services
Kirkland Lake Campus, Northern College
140 Government Rd. E.
Kirkland Lake, Ontario P2N 3L8
Telephone (705) 567-9291

Special Programs Division
Northern College
P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211

# St. Clair College of Applied Arts and Technology

## Windsor, Chatham

**President: R. Bruce McAusland**

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 4 633 |
| Part-time | 13 623 |

Serving Canada's two southernmost counties, Essex and Kent, St. Clair College has centres located in Windsor and Chatham. Among the centres in Windsor are the main or South Campus, housing postsecondary, adult training, English as a second language, apprenticeship, and continuing education programs for both Windsor and Essex County; the Community Career Counselling Services, providing career information and counselling to those seeking jobs; and the Industrial Resource Centre, containing the metal-cutting trades programs. The Thames Campus in Chatham features the developmental services worker program, which is not available in Windsor. Also offered in Chatham are various post-secondary programs, continuing education courses, and adult training programs.

*Campus locations:*

South Campus
2000 Talbot Rd. W.
Windsor, Ontario
N9A 6S4

Thames Campus
1001 Grand Ave. W.
Chatham, Ontario
N7M 5W4

Community Career
Counselling Services
151 Riverside Drive
West
Windsor, Ontario
N9A 5K3

Industrial Resource
Centre
3600 Rhodes Drive
Windsor, Ontario
N8W 5A4

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**Programs Offered**

## South Campus, Windsor

**• Arts and Science – General and Applied**

*Six-semester programs*
Advertising (business), journalism (print).
*Additional admission requirements:* advertising, journalism, – a minimum of Grade 12 English, with "C" or better in this course at the advanced level, or "B" or better in it at the general level.

*Four-semester programs*
Commercial art, early childhood education, interior design, law and security administration, legal office administration, travel counsellor.
*Additional admission requirements:* commercial art – one credit in art or equivalent and portfolio; early childhood education – autobiography and interview required, visit to a day care facility recommended; interior design – credits in art and drafting recommended; law and security administration – questionnaire; legal office administration – Grade 12 English with "C" or better in this course at the advanced level or "B" or better in it at the general level; travel counsellor – Grade 12 English with "C" or better in this course at the advanced level, or "B" or better in it at the general level, written report following a visit to a travel agency.

**• Business**

*Six-semester program*
Business administration (accounting, marketing, computer programmer analyst).
*Additional admission requirements:* Grade 12 English and Grade 10 mathematics (Grade 12 mathematics may be required in the future).

*Four-semester programs*
Business (accounting, computer programmer, retail management), secretarial arts (executive, legal, medical), word processing/microcomputer applications.
*Additional admission requirements:* business (accounting, computer programmer, retail management) – Grade 12 English and Grade 10 mathematics (Grade 12 mathematics may be required in the future); secretarial arts (executive, legal, medical) – for direct entry to year 2, successful completion of the two-semester secretarial program or 45 wpm typing, 60 wpm Pitman shorthand/shorterhand or Forkner shorthand (shorthand not required for direct entry into secretarial arts – medical); word processing/microcomputer applications – Grade 10 mathematics and 35 wpm typing.

*Two-semester program*
General secretarial.
*Additional admission requirements:* general secretarial – Grade 12 English.

**• Health Sciences**

*Nine-semester program (three years)*
Child care worker (part-time), medical laboratory technology.
*Additional admission requirements:* child care worker – questionnaire; medical laboratory technology – Grades 11 and 12 mathematics and English, senior level physics and chemistry, with a "C" in these courses at the advanced level or a "B" in them at the general level (advanced level courses in these subjects strongly recommended), written report following a day of observation in a medical laboratory.

*Six-semester programs*
Nursing, packaging management technology.
*Additional admission requirements:* nursing – Grade 12 English, Grade 10 mathematics, and two different senior level sciences (biology, chemistry and/or physics) with "C" or better in these courses at the advanced level or "B" or better in them at the general level, optional testing in English and mathematics; certificate of good health required if accepted into the program; packaging management and technology – Grade 12 English and mathematics; senior level chemistry and physics recommended.

*Four-semester program*
Animal health technician, dental hygiene.
*Additional admission requirements:* animal health technician – Grades 11 and 12 English, Grades 10 and 11 mathematics, senior level biology and chemistry, with a "C" or better in these courses at the advanced level or "B" or better in them at the general level, questionnaire; dental hygiene – certified dental assistant or eligible for certification, one year's full-time work experience as a dental assistant. Applicants with training outside of Ontario CAATs must write a comprehensive dental assistant exam and submit proof of successful completion of the radiation protection course.

*Three-semester programs*
Ambulance and emergency care, nursing assistant.
*Additional admission requirements:* ambulance and emergency care – senior level biology (preference will be given to applicants with this credit), questionnaire, first-aid and CPR courses recommended; following acceptance into the program, health record, immunization record, a valid Ontario driver's licence, and a written report after observational experience of several days in an ambulance service are required (details provided upon receipt of application); nursing assistant – Grades 9 and 10 science and Grade 10 English, Grade 9 mathematics, optional testing in English and mathematics, senior level biology recommended, certificate of good health required if accepted to the program.

*Two-semester programs*
Dental assistant, pharmacy assistant.
*Additional admission requirements:* dental assistant – senior level biology with a "C" or better in this course at the advanced level or "B" or better in it at the general level, written report following a day of observation in a dental office (typing ability recommended), questionnaire; pharmacy assistant – minimum of Grade 12 mathematics, senior level chemistry and biology, written report after a half day in a pharmacy.

*One-semester program*
Health care aide.

**• Technology**

*Six-semester programs (technology)*
Architectural, chemical engineering, civil engineering, electrical/electronics engineering, industrial engineering technology, mechanical engineering technology.
*Additional admission requirements:* architectural, civil – Grade 12 mathematics and English, senior level physics (students without the above may be assigned additional course work that could extend beyond the normal academic year); chemical engineering, electrical/electronics engineering, industrial engineering, mechanical engineering, – Grade 12 mathematics and English, senior level physics and chemistry (students without the above may be assigned additional course work that could extend beyond the normal academic year), direct entry to year 2 of the chemical engineering program may be granted to students with an OSSHGD or OACs or equivalent in English, physics, chemistry, calculus, algebra, functions and relations. Applicants to electrical/electronics, industrial, and mechanical with an OSSHGD or OACs or equivalent in English, physics, chemistry, calculus, functions and relations, and calculus or algebra may be given sufficient credits to begin the program in semester two (January rather than September), pending space availability.

*Four-semester programs (technician)*
Construction engineering technician (design), electronics, electronics technician (computer), electro-mechanical engineering, industrial control systems (robotics), manufacturing engineering (design).
*Additional admission requirements:* Grade 12 English and mathematics, senior level physics (students without the above may be assigned additional course work that could extend beyond the normal academic year).

*Two-year programs (technician)*
Food (service management), furniture renovation, heating refrigeration and air conditioning,

landscape, model/pattern maker, motive power, mouldmaking, toolmaking.

*Additional admission requirements:* furniture renovation – credits in art, chemistry, or shop recommended; heating refrigeration and air conditioning – Grade 12 mathematics or equivalent required, senior level chemistry and physics recommended (deficiencies may require additional course work that could extend beyond the normal academic year); motive power – Grade 12 mathematics required, credits in physics, chemistry, and automotive recommended; model/pattern maker, mouldmaking, toolmaking – Grade 12 mathematics required, blueprint, drafting, and machine shop strongly recommended. Students who have completed St. Clair's machine shop program or the high school linkage machine shop program may be eligible for direct entry to year 2.

*One-year program*
Automotive merchandising, hairstylist, machine shop.

*Additional admission requirements:* hairstylist – cosmetology aptitude test; machine shop – Grade 12 mathematics required, credits in blueprint, drafting, and machine shop strongly recommended.

## Thames Campus, Chatham

**• Business**

*Four-semester programs*
Business (accounting, computer programmer, marketing), office information administration, secretarial arts (executive, medical).

*Additional admission requirements:* business (accounting, marketing, computer programmer) – Grade 12 English and Grade 10 mathematics (Grade 12 mathematics may be required in the future); office information administration – basic keyboarding skills and pre-tests in English and typing; secretarial arts (executive, medical) – for direct entry to year 2, successful completion of the two-semester general secretarial program or 45 wpm typing, 60 wpm Pitman shorthand/shorterhand or Forkner shorthand (shorthand is not required for direct entry to secretarial arts – medical).

*Two-semester programs*
General secretarial, systems analyst (postdiploma).

*Additional admission requirements:* general secretarial – Grade 12 English; systems analyst – two-year college business diploma (accounting or computer major) or equivalent, or acceptable business experience.

**• Health Sciences**

*Six-semester programs*
Developmental services worker, nursing.

*Additional admission requirements:* developmental services worker – current standard (basic) first-aid certificate recommended; nursing – Grade 12 English, Grade 10 mathematics, and two different senior level sciences (biology, chemistry and/or physics), with a "C" or better in these courses at the advanced level or "B" or better in them at the general level, optional testing in English and mathematics, certificate of good health if accepted into the program.

*Six-semester programs (technology)*
Mechanical engineering technology (energy management).

*Additional admission requirements:* Grade 12 English and mathematics, senior level physics and chemistry (students without the above may be assigned additional course work that could extend beyond the normal academic year). Applicants with OSSHGD or OACs or equivalent in English, physics, chemistry, functions and relations, and calculus or algebra may be given sufficient advance standing to begin the program in semester two (January rather than September), pending space availability.

**• Alternative Learning**

*Academic upgrading*
Courses in academic upgrading are offered at the Windsor and Chatham campuses. For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

*Adult training*
St. Clair offers skill programs for adults in Windsor and Chatham. Contact the college for further information.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
The college offers over 1 200 courses on a variety of subjects at both the Windsor and Chatham campuses, as well as in smaller centres throughout Essex and Kent counties. Courses are offered four times per year, including during the summer. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

**Further Information**
*For additional information please contact*
Admissions Office
St. Clair College of Applied Arts and Technology
2000 Talbot Rd. W.
Windsor, Ontario N9A 6S4
Telephone (519) 972-2727
or
Thames Campus
1001 Grand Ave. W.
Chatham, Ontario N7M 5W4
Telephone (519) 354-9100

# St. Lawrence College Saint-Laurent

## Brockville, Cornwall, Kingston

**President: W. William Cruden**

| **Tri-campus Enrolment 1986-87** | |
|---|---|
| Full-time | 4 403 |
| Part-time | 18 231 |

With three full-service campuses in Kingston, Brockville, and Cornwall, the college serves the six counties along the St. Lawrence River from Frontenac County in the west to Glengarry County on the Ontario-Quebec border. The Cornwall campus is officially designated bilingual and offers courses in both official languages.

## St. Lawrence College Saint-Laurent, Brockville

Principal: J.M. Butt

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 694 |
| Part-time | 6 072 |

**• Arts and Science – General and Applied**

*Six semesters – two calendar years*
Child care worker.

*Four semesters – two calendar years*
Developmental services worker, general arts and science.

**• Business**

*Six semesters – three calendar years*
Business administration (options in finance and marketing – common first two semesters, September start and February start to accommodate semertered secondary schools).

*Four semesters – two calendar years*
Hotel and restaurant management.

*Two semesters – one calendar year*
Hospitality services worker, office systems operations.

**• Health Sciences**

*Six semesters – two-and-one-half calendar years*
Nursing.

September start and February start to accommodate semestered schools.

*Nine semesters*
Nursing (part-time).

*Additional admission requirements:* three senior science credits including biology, physics, and chemistry at year 3, 4, or 5 at the advanced level; two senior English credits at year 3, 4, or 5 at the advanced level, including one credit at year 4 or 5; one credit in mathematics at year 4 at the general level. The physical and mental health must be such that the requirements of the program can be met; medical certificate is required.

*Two semesters – one calendar year*
Nursing assistant.

**• Technology**

*Six semesters – three calendar years*
Electrical engineering technology – power systems.

*Additional admission requirements:* year 4 English and mathematics, year 3 science.

**• Short Programs**
Basic employment training, basic training for skill development (levels 3 and 4), English as a second language, health care aide, home support, registered nursing assistant psychiatric nursing, PATH: a re-entry program for careers in new technology, women into trades and technology (WITT), French as a second language, computer literacy – business and industry, working with the aged – multidiscipline, registered nurse – management skills, registered nurse – critical care.

**• Alternative Learning**

*Academic Upgrading*
See "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

*Assessment for Credit*
ALEC – Assessment of Learning Experience for Credit – life experiences can earn college credits; contact the Student Services for details.

*Continuing Education*
The Brockville Campus offers a variety of credit courses during the evening or day in business, creative arts, developmental education, health science, human studies, technology, and trades areas. Contact the Registrar for details.

*Economic Development Department*
This centre develops and presents training for all levels of business and industry anywhere in Ontario.

*CEIC Programs*
A variety of programs are conducted under the sponsorship of the Canada Employment and Immigration Commission (CEIC). Some of these programs have been listed under the *Short Programs* section above. For complete listings, contact the Registrar.

**Further Information**
*For more information, please contact*
Registrar
St. Lawrence College Saint-Laurent, Brockville
2288 Parkedale
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

## St. Lawrence College Saint-Laurent, Cornwall

Principal: A.L. Martin

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 1 247 |
| Part-time | 5 565 |

**• Arts and Science – General and Applied**

*Six semesters – three calendar years*
Visual and creative arts – graphic design.

*Four semesters – two calendar years*
General arts and science – offered in English, French, and bilingual.

**• Business**

*Six semesters – three calendar years*
Business administration, common first two semesters (options in data processing and management offered bilingually, finance also offered in French), all are available as co-operative programs.

*Additional admission requirements:* four general mathematics and English credits recommended; for instruction in French, two Grade 11, 12, and 13 français are required, Grade 12 français recommended.

*Four semesters – two calendar years*
Appraisal (common two semesters with business and business administration), business offered bilingually, business (accounting) – also offered in French, both programs offered as co-operative programs, *commerce comptabilité* secretarial arts (options in executive, legal, bilingual) – common first two semesters.

*Additional admission information:* same as above.

*Two semesters – one calendar year*
Stenographer.

*Additional admission requirements:* same as above.

**• Health Sciences**

*Six semesters – two-and-one-half calendar years*
Nursing – also offered bilingually.

*Additional admission requirements:* three senior science credits including biology, physics, and chemistry at year 3, 4, or 5 at the advanced level; two senior English credits at year 3, 4, or 5 at the advanced level, including one credit at year 4 or 5; one credit in mathematics at the year 4 general level.

*Four semesters – two calendar years*
Behavioural science technician – also offered bilingually.

*Additional admission requirements:* bilingual program requires two general Grade 11 or 12 credits in français (or one credit in français and one in English – one must be from senior grades).

*Two semesters – one calendar year*
Health care aide (part-time).

**• Technology**

*Six semesters – three calendar years*
Electronics engineering technology, marine engineering technology, mechanical engineering technology, microcomputer engineering technology; co-operative education available in microcomputer, marine, and electronics engineering technology.

*Four semesters – two calendar years/64 weeks*
Computer software technician (part-time), electronics.

*Additional admission requirements:* (both six-semester and four-semester programs) credits for mathematics and English at a senior level and a science credit (physics) at the year 3 level; for instruction in French, two Grade 11 or 12 credits in français (or one francais and one English – including one at the Grade 12 level) are required.

*Short Programs*
Carpenter, electronics (digital equipment and systems), fabricating and welding, industrial maintenance mechanic, machine shop, motor vehicle mechanic, women into trades and technology (WITT).

**• Alternative Learning**

*TRAC*
A modularized, self-paced learning system for fabricating and welding, industrial maintenance, and machine shop. Monthly entry.

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

*Pre-employment programs*
Contact the college for information.

**Further Information**
*For more information, please contact*
Admissions Office
St. Lawrence College Saint-Laurent, Cornwall
Windmill Point
Cornwall, Ontario K6H 4Z1
Telephone (613) 933-6080 ext. 2178

## St. Lawrence College Saint-Laurent, Kingston

Principal: G.K. Welch

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 2 462 |
| Part-time | 6 594 |

**• Arts and Science – General and Applied**

*Six semesters – three calendar years*
Animal care technology, behavioural science technology, child care worker, fashion merchandising, visual and creative arts (fashion design), visual and creative arts (graphic design).

*Additional admission requirements:* animal care technology – year 4 advanced credits in mathematics, chemistry, and English, plus one of either biology or physics at the advanced level in year 3 or higher.

*Four semesters – two calendar years*
Correctional worker, early childhood education, general arts and science, visual and creative arts – fine arts.

**• Business**

*Six semesters – three calendar years*
Business administration (options in data processing, finance, human resources management, and marketing), fashion merchandising.

*Additional admission requirements:* year 4 general level mathematics or equivalent recommended; business administration (data processing), finance and marketing – year 4 advanced level mathematics and English recommended.

*Four semesters – two calendar years/64 weeks*
Business (options in advertising and public relations, accounting, marketing, legal assistant, human resources management), computer programmer, secretarial arts (legal, medical, office automation options).

*Additional admission requirements:* business (advertising and public relations, legal assistant) – year 4 general level English.

*Two semesters – one calendar year*
Stenographer, word processing secretary.

*Additional admission requirements:* word processing secretary – 50 wpm.

**• Health Sciences**

*Eight semesters – three years*
Medical laboratory technology

*Additional admission requirements:* credits for mathematics, chemistry, and English at the advanced level in year 4 or better; credit for biology or physics at the advanced level in year 3 or better.

*Six semesters – two-and-a-half/three calendar years*
Nursing.

*Additional admission requirements:* three senior science credits including biology, physics, and chemistry at year 3, 4, or 5 at the advanced level; two senior English credits at year 3, 4, or 5 at the advanced level, including one credit at year 4 or 5; one credit in mathematics at year 4 at the general level.

*Three semesters – one calendar year*
Nursing assistant.

**• Technology**

*Six semesters – three calendar years*
Civil engineering technology, computer engineering technology, electronics engineering technology, instrumentation engineering technology (industrial), mechanical engineering technology.

*Additional admission requirements:* for six-semester technology programs – year 4 general level mathematics and English, year 3 science credit; computer engineering technology – year 4 advanced level mathematics.

*Four semesters – two calendar years/64 weeks*
Mechanical engineering technician (machining), electronics engineering technician, instrumentation engineering technician (industrial).

*Additional admission requirements:* year 4 general level mathematics and English, year 3 science credit.

**• Short Programs**

Short programs offered include: basic employment training, basic food preparation, basic training for skill development – levels 2 to 4, English as a second language, health care aide, industrial maintenance mechanic, introduction to non-traditional occupations, life skills coach, machine shop, PATH: a re-entry program into highly skilled careers, registered nursing assistant (psychiatric nursing), stationary engineering (4th and 3rd class).

**• Alternative Learning**

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section. Consult the college calendar for details.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
St. Lawrence College Saint-Laurent, Kingston offers a wide range of day and evening courses, including courses leading to college diplomas or certificates, advanced courses in technical and business fields for professional associations, and general interest courses, both leisure and career related. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

*Pre-employment programs*
Consult the college calendar for details.

*Community Learning Centre*
Individualized programs of study are available in a wide range of careers in business and technology. Courses cover specific trade materials: stationary engineering, industrial maintenance mechanics, electrical/electronics, drafting, welding, mathematics and physics upgrading, and first-year college courses in mathematics, physics, mechanics, drafting, electronics, computing, and accounting. The format is take-home study materials, with tutorial assistance and testing at the college. Students can start any day of the week and progress at their own pace. A tutor is available to give individual help as required.

**Further Information**

*For more information, please contact*
Registrar
St. Lawrence College Saint-Laurent
King & Portsmouth
Kingston, Ontario K7L 5A6
Telephone (613) 544-5400

# Sault College of Applied Arts and Technology

## Sault Ste. Marie

**President: Ron Doyle**

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 2 296 |
| Part-time | 13 161 |

Sault College is located in the City of Sault Ste. Marie and serves the District of Algoma. Sault College's concern for the natural resources of the environment is reflected in its college programs. The college also has strong technology, business, applied arts, and health sciences programs covering wide areas of interest.

The Continuing Education Division of the college offers a wide range of courses, not only at the main Sault Ste. Marie Campus, but also at the college's satellite campuses in Elliot Lake and Wawa. Through these campuses, many other locations throughout the District of Algoma receive programming.

*Campus locations:*

Sault College
Main Campus
443 Northern Ave.
Sault Ste. Marie,
Ontario
P6A 5L3

Elliot Lake and
North Shore Campus
1 College Place
Elliot Lake, Ontario
P5A 3G9

North Algoma
Campus
3 Maple St.
P.O. Box 1490
Wawa, Ontario
T0S 1K0

**Programs Offered**

**• Arts and Sciences – General and Applied**

*Two-year diplomas*
Visual arts (majors in advertising art, fabric/fibre design, painting, pottery, printmaking).

*Additional admission requirements:* Grade 12 general level English.
Recommendations:
1) Applicants should attend an information session or make alternative arrangements to familiarize themselves with the curriculum, facilities, and instructors.
2) Applicants should submit samples, photos, or slides of work.
3) Applicants should submit a paragraph on what they have done or hope to do in the art career field.

*Three-year diploma*
Child care and adolescent worker (extended day program).

*Additional admission requirements:* OSSGD with Grade 12 general level English.
Procedures: qualified applicants will be required to:
1) attend an informal session that will include career information, program and course information, and reading and writing samples to determine entrance level. If attendance at the information session is impossible, alternative arrangements must be made with the C.C.W. Department.

2) submit a medical certificate of good health. All procedural requirements must be completed before final admission will be granted. This is an extended day program.

Students may elect to pursue a part-time program. Part-time subjects areas are limited and offered at the discretion of the C.C.W. Department. Part-time students applying for full-time status will be viewed as new applicants and must satisfy all admission criteria.

*Two-year diploma*
Developmental services worker.
*Additional admission requirements:* Grade 12 general level English.
Procedures: qualified applicants will be required to:
1) attend an information session that will include career information, program and course information, field placement requirements, and reading and writing samples to assist in determining entrance level. If attendance at information session is impossible, alternative arrangements must be made with ECE or DSW Department.
2 a) demonstrate career awareness by indicating in writing what exposure they have had to the field *i.e.,* volunteer or part-time work, or visitation to a centre. Submit this information at the ECE or DSW information session.
b) demonstrate career awareness by providing confirmation of having visited a centre, or of part-time or volunteer work at a centre. Submit this information at the ECE or DSW information session.
3) submit a medical certificate of good health.
All procedural requirements must be complete before final admission will be granted.

*One or two semesters*
College preparatory, career explorations in business, human services, pre-engineering.

*Two-year diploma*
Liberal studies.
*Minimum academic requirements:* OSSGD or OSSHGD with Grade 12 English at the general level, or mature student status.

**• Business**

*Three-year diplomas*
Accounting, advertising management, finance and sales management.

*Two-year diplomas*
Accounting, advertising management, electronic data processing, executive secretary, finance and sales management, hotel and restaurant management, legal secretary.

*One-year certificates*
Chef training, office procedures/retail sales.
*Minimum academic requirements:* OSSGD or OSSHGD, with general level Grade 12 English and Grade 10 mathematics.

**• Health Sciences**

*Three-year diplomas*
Nursing.
*Additional admission requirements:* Grade 12 general level English and Grade 10 general level mathematics, as well as two senior sciences, one of which must be chemistry, and the other one of the following: biology, physics, human anatomy, or physiology. At least one of the science credits must be at the advanced level.
Recommendations: overall academic standing of applicants, based on an average of Grade 12 English and the two senior sciences, should be more than 70% if the applicant has subjects at the general level and 60% if the applicant has subjects at the advanced level.

To assist students in making decisions about a career, we recommend that students, prior to admission, become knowledgeable about nursing through some exposure to nurses and the health care field, such as volunteer work, career day experiences with nurses, or other similar experiences.
Procedures: qualified applicants will be required to:
1) attend an information session that will include career information, the opportunity to discuss nursing as career choice with a nursing instructor, and program and course information. If attendance at the information session is impossible, alternative arrangements must be made with the Nursing Department.
2) write a math test while attending information session. Entry level mathematics competencies have been identified for the nursing program. Applicants who achieve below the stated competencies on the test will be required to participate successfully in some developmental education to achieve these competencies before September 30 of the year admitted. Copies of entry level competencies are available from the Chairman, Health Sciences.
3) submit a health review, immunization record, and proof of tuberculosis test.

**• Technology**

*Three-year diplomas (engineering technology)*
Architectural engineering technology, civil engineering technology, computer engineering technology, electrical engineering technology, electronic engineering technology, mechanical engineering technology.
*Additional admission requirements:* Grade 12 general level mathematics (advanced mathematics strongly recommended), Grade 11 or 12 general physics.

*Three-year diplomas (science and natural resources technology co-operative education programs)*
Forestry technology (fish and wildlife), forestry technology (parks and recreation), water resources engineering technology (co-op), pulp and paper engineering technology (co-op).
*Additional admission requirements:* forestry technician – Grade 12 English, general level mathematics.
Recommendations: completion of Grade 11 or 12 general level biology and advanced level mathematics are strongly recommended; pulp and paper engineering technician, water resources engineering technician – Grade 12 general level English, mathematics, and chemistry.
Recommendations: general level physics and advanced level chemistry and mathematics are strongly recommended.

*Two-year diplomas (engineering technician)*
Architectural (drafting) technician, aviation technologist (flight), construction engineering technician, electrical engineering technician, electronic engineering technician, mechanical engineering technician, mechanical engineering technician (drafting), civil engineering technician, mechanical engineering technician (ventilation option)*.

*Additional admission requirements:* aviation technologist – four credits in mathematics, plus Grade 11 or 12 physics, Transport Canada medical examination, and 20/20 uncorrected vision in both eyes; electrical engineering technician, electronic engineering technician, mechanical engineering technician, mechanical engineering technician (drafting) – Grade 12 general level mathematics, Grade 11 or 12 general level physics.

*Two-year diplomas (science and natural resources technician co-operative education programs)*
Forestry technician, geology engineering technician.
*Additional admission requirements:* Grade 12 general level mathematics (business mathematics not accepted).

*One-year certificates (techniques)*
Heavy equipment (diesel), machine shop, motor vehicle mechanic, welding and fabricating.
*Special admission requirements:* Grade 10 general level mathematics.

**• Postdiploma Programs**

Food and beverage management.
*Admission requirements:* completion of a chef training program with minimum G.P.A. of 2.5, or equivalent training/experience.

Infant toddler care and education.
*Admission requirement:* graduation from an approved early childhood education program. Applicants with a diploma or degree in a related field will be considered on an individual basis.

Tourism marketing management.
*Admission requirements:* graduation from advertising management, finance and sales management, or food and beverage management programs.

**• Alternative Learning**

*Academic upgrading*
For programs, see the CAAT chart at the beginning of this section. For a general description, see "College Preparatory Programs for Academic Upgrading" in the *General Information on Colleges of Applied Arts and Technology* section.

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Continuing education*
A wide variety of credit and non-credit courses is offered in addition to supervisory and management courses and industrial training courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and contact the college for details.

*Retraining*
College preparatory levels and skill prerequisites are available through upgrading or academic development studies for students who lack specific prerequisites. Contact the college for further information.

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*This is a unique program available only at the Elliot Lake and North Shore Campus. Contact that campus for details.

**Further Information**

*Additional information is available by contacting*

Registrar's Office
Sault College of Applied Arts and Technology
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 949-2050

## Seneca College of Applied Arts and Technology

## North York, York Region

**President: W.R. McCutcheon**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 9 951 |
| Part-time | 65 000 |

Seneca College is a multi-campus institution serving Metropolitan Toronto, the City of North York, and the Regional Municipality of York, north of the metropolitan area.

*Campus locations:*

Newnham Campus
1750 Finch Ave. E.
North York, Ontario
M2J 2X5

Sheppard Campus
43 Sheppard Ave. E.
North York, Ontario
M2N 2Z8

King Campus
Dufferin St. N.
R.R. 3
King City, Ontario
L0G 1K0

Lawrence Campus
1780 Lawrence Ave. W.
Toronto, Ontario
M6L 1C7

Glen Park Campus
100 Dalemount Ave.
North York, Ontario
M6B 3C9

Markham Office
8525 McCowan Rd.
Unit 105
Markham, Ontario
L3P 5E5

Newmarket Office
112 Yonge St.
Newmarket, Ontario
L3Y 6Y9

Jane Campus
21 Beverly Hills Dr.
Downsview, Ontario
M3L 1A2

Yorkdale Campus
2999 Dufferin St.
Toronto, Ontario
M6B 3T4

Leslie Campus
1255 Sheppard Ave. E.
North York, Ontario
M2K 1E2

Dufferin Campus
1000 Finch Ave. W.
Downsview, Ontario
M3J 2V5

Fairmeadow Campus
17 Fairmeadow Ave.
North York, Ontario
M2P 1W6

Futures
55 Spring Garden Rd.
North York, Ontario
M2N 3G1

### Programs Offered

- **Arts and Science – General and Applied**

*Three-year diplomas*
Design arts, fashion arts, fashion (retail merchandising), recreation facilities administration.

*Additional admission requirements:* Grade 12 English, group orientation session, questionnaire, and portfolio/testing; design arts – art or drafting credits desirable; recreation facilities administration – college diploma in recreation facilities management or equivalent.

*Two-year diplomas*
Audio-visual techniques (production, technical, sales/marketing options), broadcasting (radio and TV), coaching techniques (gymnastics, figure skating), cosmetics, creative advertising, design illustration, early childhood education, fashion merchandising, flight services (three semesters), golf course technician, government administration, harness horse industry operations, law enforcement, legal administration, library techniques, outdoor recreation technician, parks operations and services, real property administration, recreation facilities management, social service worker, visual merchandising arts.

*Additional admission requirements:* Grade 12 English, group orientation session, questionnaire/testing; audio-visual techniques – drafting, technical, electronics, art, computer skills; broadcasting (radio and TV) – social sciences credits and keyboarding desirable; coaching techniques – practical test to demonstrate competency in gymnastics or figure skating, depending on option selected and satisfactory medical; cosmetics – Grade 12 mathematics recommended, no allergic reaction to any cosmetic product; creative advertising – basic typing skills recommended; design illustration – art or drafting credits desirable; early childhood education – satisfactory tuberculin test and chest X-ray; flight services – Grade 12 French or equivalent; government administration – Grade 11 mathematics; library techniques – typing and art credits recommended.

*One- to three-year program*
College vocational program.

*Special admission requirements:* candidates must have successfully completed a high school vocational or occupational program, be recommended by the principal, and be at least 17 years of age during the first year of the course. Interview with candidate and parents or guardian(s).

*One-year certificates*
Cosmetics, retail florist.

*Additional admission requirements:* cosmetics – Grade 12 English, Grade 12 mathematics recommended, group orientation session, questionnaire/testing, no allergic reaction to any cosmetic product; retail florist – work experience, art ability desirable.

- **Business**

*Three-year diplomas*
Accounting and finance, business administration, computer programming and analysis (co-op and electronic data processing – auditing options are available), international business, international traffic and customs administration, marketing administration, small business administration, tourist industry administration.

*Additional admission requirements:* Grade 12 English and mathematics, group orientation session, questionnaire, mathematics testing; tourist industry administration – questionnaire, orientation session.

*Two-year diplomas*
Accounting, computer programming and operating, general business, international traffic and customs assistant, marketing, records and information management, secretary (bilingual, executive, legal, medical), small business management, tourism studies, word processing (bilingual), word processing-correspondence specialist, word processing operator (legal).

*Additional admission requirements:* Grade 12 English; accounting, computer programming and operating, general business, marketing, small business management – Grade 12 mathematics, group orientation session, questionnaire, mathematics testing; secretary (bilingual) – Grade 12 French or equivalent; tourism studies orientation session, questionnaire, Grade 12 mathematics; word processing (bilingual) – Grade 12 French or equivalent.

*One-year certificates*
General dicta-typist, human resources management, integrated office systems, international business management, professional sales certificate, secretarial (executive, legal, medical), word processing-correspondence specialist, word processing operator (legal).

*Additional admission requirements:* Grade 12 English; human resources management, international business management – college diploma or mature student with three years' work experience; integrated office systems – college or university certificate or diploma, knowledge of keyboarding, business terminology, and computers essential, bookkeeping desirable; secretarial (executive, legal) – 45 wpm typing, 80 wpm shorthand in any approved system, skills test; word processing-correspondence specialist, word processing operator (legal), secretarial (medical) – 45 wpm typing, transcription ability, production typing skills, skills test.

### • Health Sciences

*Two-and-one-half-year diploma*
Nursing.
This program leads to a diploma in nursing and, upon successful completion of the examination set by the College of Nurses of Ontario, certification as a registered nurse.

*Additional admission requirements:* Grade 12 mathematics (minimum), Grade 12 English, Grade 11 or 12 biology (minimum 65%), and either Grade 11 or 12 chemistry or physics or equivalent, group orientation session, testing, certificate in standard first aid.

*One-year diploma*
Dental hygiene.

*Additional admission requirements:* college dental assistant certificate (level 1), or equivalent as determined by the college. Work experience is a major weighting factor in the admission/selection procedure. College testing, current certification in basic CPR, and a course in radiation safety required.

*One-year certificate*
Dental assisting.

*Additional admission requirements:* Grade 12 English, group orientation session, testing, Grade 11 or 12 biology, either Grade 11 or 12 chemistry or physics, Grade 12 mathematics, current certificates in standard first aid and basic CPR.

Animal health technician.

*Additional admission requirements:* Grade 12 English, mathematics, Grade 11 or 12 chemistry and biology (overall B average recommended), questionnaire, group orientation session, pretests. Pre-exposure series of inoculations against rabies is required prior to registration. Preference may be given to applicants with the prerequisite subjects (see above) at the advanced level.

### • Technology

*Three-year diplomas (technology)*
Aviation and flight (eight continuous semesters over three years).

*Additional admission requirements:* Grade 12 English, Grade 12 advanced level mathematics, Grade 11 or 12 physics and chemistry, college mathematics test, 20/50 uncorrected vision for each eye (correctable to 20/20), certificate of medical fitness. Candidates should request detailed information concerning entrance requirements. Persons who currently hold or who will be holding, prior to September registration, a commercial pilot's licence (rotary or fixed wing) are *not* eligible for admission to the aviation program.

Biological research, chemical (co-op), civil engineering (co-op, marine option, electronics engineering (options in computer communications, nuclear power, and control), fire protection, laboratory, manufacturing engineering, mechanical engineering (option in nuclear power), pharmaceutical chemistry (co-op), resources engineering (co-op, option in marine), computer engineering (co-op).

*Additional admission requirements:* Grade 12 mathematics and English; civil engineering – Grade 11 or 12 physics recommended; resources engineering – Grade 11 or 12 physics recommended, Grade 11 or 12 geography recommended; electronics, manufacturing, and mechanical engineering – Grade 11 or 12 physics, Grade 11 or 12 chemistry recommended; laboratory, chemical, pharmaceutical chemistry – Grade 12 chemistry, Grade 11 or 12 physics and biology recommended; biological research – Grade 11 or 12 chemistry and biology, Grade 11 or 12 physics recommended; computer engineering – Grade 11 or 12 computer sciences, advanced level mathematics, 30 wpm keyboard skill, Grade 11 or 12 physics recommended.

*Two-year diplomas*
Biological chemical technician, cartographic technician, civil engineering, electronics engineering (communications, computers, and avionics options), fire protection, manufacturing engineering (NC/CNC programmer option), mechanical engineering (NC/CNC programmer and design/drafting option), resources engineering.

*Additional admission requirements:* Grade 12 English and mathematics; biological chemical technician – Grade 11 or 12 chemistry (Grade 11 or 12 biology and physics recommended); cartographic technician – college questionnaire (Grade 11 or 12 geography recommended); civil engineering, electronics engineering, mechanical engineering – Grade 11 physics desirable; resources engineering – Grade 11 or 12 geography recommended.

*One-year certificate*
Electron microscopical techniques, underwater skills, precision machining.

*Additional admission requirements:* Grade 12 mathematics and English; underwater skills – Grade 11 or 12 physics, group orientation session, certification as a sports scuba diver (level 1), questionnaire, testing; precision machining – Grade 12 machine shop and drafting, orientation session, questionnaire; electron microscopical techniques – B.Sc. or higher university degree, an appropriate college diploma, or registered technologist diploma.

### • English and Liberal Studies

*Two-year program*
General arts and science.

*Special admission requirements:* Grade 12 mathematics, some familiarity with French desirable.

*One-and-a-half-year program*
College opportunities.

*Admission requirements:* Grade 12 diploma or mature student over 19 years of age.

*One-year program*
Corporate communications.

*Special admission requirements:* Accredited university degree or college diploma or mature student with five years' related work experience.

### • Alternative Learning

*Continuing education*
Diploma and certificate level study, vocational subjects, special interest subjects, and college preparatory courses are offered. For an up-to-date list of courses, consult the college calendar. Also see the "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section for a general description.

*Academic upgrading/college preparatory programs*
For students wishing to register in postsecondary programs but who do not have the OSSD/OSSGD, academic upgrading programs are offered at the Lawrence and King campuses. Students must be at least 19 years of age on or before the first day of classes.

*The Centre for Independent Learning (C.I.L.)*
43 Sheppard Avenue East,
North York, Ontario M2N 2Z8.
The Centre for Independent Learning, located in the Sheppard campus, is designed to provide postsecondary educational opportunities to those people whose work or personal commitments make it impossible to attend regularly scheduled classes on campus. As well, the flexible, self-paced format of the centre's courses allows the student to complete required study objectives in a shorter or longer period of time than the traditional semester. Small group seminars, individual tutorials, and independent work assignments replace the formal scheduled classroom lectures, which can be taken during the day and/or evening, including Saturday mornings.

The following full-time postsecondary programs are offered through the C.I.L.: business administration, general business, tourism studies, computer studies.

*Skills development programs*
Basic employment training, basic job-readiness training, college preparatory program/academic upgrading, computer-assisted design operator, computer numerical control programmer, drafting, electronics (options in radio, hi-fi and TV servicing, mobile radio, cable TV service and maintenance, digital electronics), English as a second language, farrier, floral design, Futures, hyperbaric chamber operator, industrial maintenance mechanic, introduction to non-traditional occupations, machine shop, office system operation, photocopier repair and maintenance, rehabilitation through education, technical upgrading, underwater skills, women into trades and technology, working skills for women.

*Admission requirements:* mature student status, age 19 or over on the first day of classes; in some programs an OSSD is required. Refer to the college program handbook for full details. Each potential student is given functional tests by the college to determine the applicant's aptitude and ability for the desired program of instruction.

**Further information**
Additional information is available by contacting the college (see *Campus locations* for addresses)

Newnham Campus
Registrar's Office
Telephone (416) 491-5050

King Campus
Registrar's Office
Telephone (416) 833-3333 (calling from Metro Toronto or King City)
1-800-263-2060 (calling outside Metro Toronto or King City)

Sheppard Campus
Admissions Office
Telephone (416) 491-5050

Lawrence Campus
Admissions Office
Telephone (416) 491-5050

Leslie Campus
Student Services Office
Telephone (416) 491-5050

Yorkdale Campus
Registrar's Office
Telephone (416) 491-5050

Jane Campus
Telephone (416) 491-5050

Glen Park Campus
Telephone (416) 491-5050

Dufferin Campus
Telephone (416) 491-5050

Newmarket Office
Telephone (416) 898-6199

## Sheridan College of Applied Arts and Technology

## Oakville, Brampton, Burlington, Milton, Mississauga

**President: Donald A. Shields**

| **Enrolment 1986-87** | |
|---|---|
| Full-time | 6 700 |
| Part-time | 45 000 |

Sheridan College serves the two growing regions of Halton and Peel, between Hamilton and Toronto. The School of Crafts and Design, which will relocate to the Oakville Campus in January 1988, is the largest school in Ontario devoted to crafts education, and the Heavy Equipment School in Milton has developed one of the best-equipped heavy-equipment training facilities in North America. Sheridan offers a number of programs with a co-operative education component, which allows students to alternate academic terms and practical experience.

*Campus locations:*

Oakville Main Campus
1430 Trafalgar Rd.
Oakville, Ontario
L6H 2L1

Burlington Campus
2319 Fairview Ave.
Burlington, Ontario
L7R 2E3

Mississauga Campus
100 Dundas St. W.
Mississauga, Ontario
L5B 1H3

Port Street Campus
1 Port St. E.
Mississauga, Ontario
L5G 4N1

Argus Road Campus
572 Argus Rd.
Oakville, Ontario
L6J 3J3

Brampton Campus
McLaughlin Rd.
Box 7500
Brampton, Ontario
L6V 1G6

Credit Valley Campus
School of Nursing
2186 Hurontario St.
Mississauga, Ontario
L5B 1M9

Milton Campus
Heavy Equipment School
R.R. 3
Milton, Ontario
L9T 2X7

Queen Elizabeth Campus
178 South Service Rd. E.
Oakville, Ontario
L6J 2X5

Training and Development Centre
8027 Dixie Rd.
Brampton, Ontario
L6T 3V1

## Brampton Campus

- **Arts and Science – General and Applied**

*Three-year diplomas*
Sign-language interpreter (option to graduate after two years and receive a sign-language communicator diploma), visual arts – illustration (interpretive, technical options).

*Additional admission requirements:* sign language interpreter – testing in English, questionnaire, information session, applicants with previous postsecondary education and/or facility in American sign language may apply for advanced standing; visual arts – questionnaire, portfolio.

*Two-year diplomas*
Correctional worker, early childhood education, general arts and science (co-op), general arts and science (liberal studies), law and security administration (police education and loss prevention management), sign-language communicator, social service worker.

*Additional admission requirements:* English testing, questionnaire, information session.

- **Business and Secretarial**

*Three-year diploma*
Business administration (accounting(co-op), general, human resource management, marketing options). All options have a common first year; accounting and marketing have a co-op mode available in years 2 and 3.

*Additional admission requirements:* Grade 12 English required, Grade 12 mathematics recommended.

*Two-year diplomas*
Business (accounting, marketing, general options), hotel and restaurant management, office administration (executive, legal, and medical options), retail management.

*Additional admission requirements:* business, hotel and restaurant management, retail management – Grade 12 English required, Grade 12 mathematics recommended; office administration – consult the college calendar for direct-entry requirements into year 2.

*One-year certificate*
Intensive secretarial.

- **Information and Computer Systems**

*Three-year diplomas*
Systems analyst, computer science technology (co-op).

*Additional admission requirements:* systems analyst – Grade 12 English and technical mathematics; computer science technology (co-op) – Grade 12 technical mathematics and chemistry and Grade 11 physics. Direct entry to semester 2 may be granted to computer science technology applicants with 60% in two OAC credits including technical mathematics and one science. Direct entry to semester 3 may be granted to applicants who have 60% in four OAC credits including two technical mathematics and one science or three technical mathematics.

*Two-year diplomas*
Microcomputer management (co-op), records and information management, word processing procedures and administration.

*Additional admission requirements:* microcomputer management – Grade 12 technical mathematics and English.

*One-year certificate (postdiploma)*
Integrated office systems and microcomputer support analyst.

*Additional admission requirements:* a university degree or a college diploma or at least three years' business experience (at least two years of which is at a supervisory level, for admission to integrated office systems).

- **Technology**

*Three-year diploma (technology)*
Engineering (chemical, electronics (co-op), mechanical (co-op)).

*Additional admission requirements:* senior level chemistry and physics, Grade 12 technical mathematics. Direct entry to semester 2 may be granted to chemical, electronics, and mechanical technology applicants with four Grade 13 or OAC credits including two technical mathematics, physics, and chemistry. Some courses from semester one must be completed before graduation. Electronics and mechanical engineering technology applicants who have additional credits and/or industrial experience may be considered for direct entry into semester 3.

*Two-year diplomas (technician)*
Chemical (laboratory), civil engineering (construction: (co-op)), drafting engineering, electronics engineering (microcomputer option), mechanical engineering.
*Additional admission requirements:* chemical (laboratory) – Grade 12 technical mathematics and chemistry; civil engineering (construction), drafting engineering (architectural, mechanical), electronics engineering, mechanical engineering – Grade 12 technical mathematics.

*One-year certificates*
Animal care, major appliance service technician.
*Additional admission requirements:* animal care – one senior level chemistry and Grade 10 biology.

*Special programs*
Electronic engineering technician (microcomputer option) is designed to train persons capable of performing on-site and in-factory repairs, testing, and maintenance on microcomputers. The one-year animal care and major appliance service technician programs are unique in Ontario.

## Oakville Campus

**• Arts and Science – General and Applied**

*Two-year diplomas*
Advertising, applied research, early childhood education year 2 options (Montessori, computers in ECE, infant and toddler care, special needs programming), general arts and science (liberal studies), human services administration, journalism (print), library techniques, social service worker, sports injury management, travel and tourism.

For direct entry requirements into year 2 of advertising, applied research, journalism (print), consult the college calendar.

*Additional admission requirements:* advertising – Grade 12 advanced English; applied research – well-developed intellectual and interpersonal skills; journalism (print), library techniques – above-average English and oral expression; sports injury management – Grade 12 English, Grade 10, 11, or 12 biology; all applicants to applied arts programs must complete a questionnaire.

*One-year certificate*
Family care assistant.
*Additional admission requirements:* – interview and references; program may be appropriate for graduates of some basic level secondary school programs.

*One-year (postdiploma) certificate*
Courseware design and production.
*Additional admission requirements:* postsecondary degree or diploma or two years' documented teaching experience at a community college or university and one year's postsecondary credits; or four years' documented industrial training leadership experience and one year's postsecondary credits.

*One year (postbasic) certificate*
Educational assistant.
*Additional admission requirements:* one year of college or university education, with a majority of health, social, or behavioural science subject areas and some endorsed experience working with exceptional people, or current employment in a helping role with exceptional clients.

*One-semester postbasic certificate*
Developmental care for the mentally retarded.
*Additional admission requirements:* a diploma or degree in a related social/health science program combined with practical experience in this field, or work in an agency that provides programs for the developmentally handicapped.

Media Arts and Music Theatre

*Three-year diploma*
Theatre arts, performance.
*Additional admission requirements:* audition and interview.

*Two-year diplomas*
Media arts, media arts – writing elective, theatre arts – technical production.
*Additional admission requirements:* media arts – strong English skills, questionnaire, interview; writing elective – interview, awareness and career questionnaire, good English skills, keygoarding skills, portfolio; theatre arts – audition; technical production – backstage experience, résumé, portfolio, information session.

*Special programs*
Media fundamentals is a discovery year, during which students are taught the basics of media production required for admission to the diploma media arts program. The media arts writing elective develops ideas, editing, and publishing skills applied to print, television, radio, film, and multi-image, as well as high-tech and interactive media. Technical and production theatre is a two-year "apprenticeship-type" program in stage management, set design, and execution for costume, set, props, sound and lighting.

Fashion Arts and Merchandising

Esthetician, fashion technique and design (knit and clothing options), fast-food operations management, professional modelling and related careers, retail management, visual merchandising arts.
*Additional admission requirements:* esthetician – Grade 12 biology, information session, questionnaire; fashion technique and design – portfolio of three fashion drawings and a sewing background desirable, information session, questionnaire; fast-food operations management, retail management – Grade 12 English, Grade 12 mathematics recommended, information session, questionnaire; professional modelling and related careers – for professional modelling elective, weight proportional to height and good facial bone structure, minimum height female (167 cm), male (175 cm to maximum 182 cm), strong facial features; visual merchandising – an art course recommended, questionnaire, information session.

*Special programs*
The esthetician program trains skin-care specialists, who often work closely with medical experts such as dermatologists and cosmetic surgeons and who can recognize the conditions under which a client should be referred to a doctor. Note that this program should be distinguished from a cosmetology or cosmetic sales program.

Visual merchandising specialists promote store sales through window and store displays. Students gain experience by working freelance for retailers and fashion-show sets and trade-booth design.

Visual Arts

*Three-year diploma (or four-year specialist co-operative degree)*
Art and art history, a three-year major or four-year specialist co-operative degree program between Sheridan College and Erindale College (Univeristy of Toronto), provides students with academic background and practical training in the visual arts. Graduates receive a B.A. from Erindale (completion of ten credits) and a diploma in art and art history (five credits) from Sheridan. In order for the student to be eligible for a Type A certificate (Faculty of Education), a four-year degree with a specialist program in fine art (studio) is available.
*Additional admission requirements:* applicants must submit separate applications to both Sheridan and Erindale and must register at both institutions.

*Three-year diplomas*
Animation, graphic design.
International summer school of animation is offered for 14 weeks each year from May to August; applications are accepted from out-of-province and foreign students.
*Additional admission requirements:* formal training in art and design.

*Two-year diploma*
Applied photography.
*Additional admission requirements:* visual arts students are usually required to have formal art training in secondary school. They may be required to submit a portfolio for assessment or have an evaluation of talent through a personal interview and drawing tests. In most cases, questionnaires will be used as a selection technique.

*One-year certificate.*
Art fundamentals.
Art fundamentals provides a foundation in art and design to students with limited experience and assists them in making a career choice by exposing them to a number of areas in the arts and crafts field.

*One-year certificate (postdiploma)*
Computer animation, computer graphics.
Computer graphics and computer animation, one-year programs for graduates of a postsecondary art or design program of at least two years' duration or four years of related professional experience. Résumé and portfolio required. Summer programs available, May to August.

*Special Programs*
Animation, art and art history.
Animation, a three-year program, is the only one of its kind in North America. Art and art history, a three-year major or four-year specialist co-operative degree program between Sheridan College and Erindale College (University of Toronto), provides students with academic background and practical training in the visual arts.

**• Business and Office Administration**

*Three-year diplomas*
Business administration (accounting, corporate administration, finance, marketing). All options have a common first year.

*Additional admission requirements:* Grade 12 English required, Grade 12 mathematics and keyboarding recommended. Successful completion of a pretest exempts a student from a related year 1 course.

*Two-year diplomas*
Business (accounting, general and marketing, and motor carrier administration options), office administration – secretarial arts (executive option: shorthand or information processing electives, legal option: shorthand or word processing electives, and medical option, word processing: procedures and administration. Consult the college calendar for direct entry requirements into year 2 of executive, legal, and medical options.

*Special Programs*
The two-year motor carrier administration program prepares students to enter a wide variety of positions within the regulated trucking industry, including such areas as expediting, rate analysis, and loss control, which can lead to careers as traffic managers, terminal managers, field supervisors, and sales and marketing specialists.

*One-year certificate*
Intensive secretarial studies (general, office automation).

*One-year postdiploma certificate*
Integrated office systems.

*Additional admission requirements:* postsecondary diploma or degree or three years' business experience, at least two years of which are at a supervisory level.

**• Computer Studies**

*Three-year diplomas*
Business computer systems (co-op), computer science technology (co-op).

*Additional admission requirements:* Grade 12 English and technical mathematics; computer science technology – Grade 12 chemistry, Grade 11 physics; consult college calendar for direct-entry requirements into year 2.

*Two-year diplomas*
Electronic data processing/computer programmer, electronic engineering technician (microcomputer option), microcomputer management.

*Additional admission requirements:* Grade 12 technical mathematics and English.

*One-year (postdiploma) certificate*
Telecommunications management.

*Additional admission requirements:* a degree or diploma in a related discipline, or a minimum of three years' work experience.

*Special Programs*
Telecommunications management, a unique program in Canada, will prepare experts in the transmission of voice, data, images, and text in several applications including automated offices, electronic mail, satellite transmission, videotex, teleconferencing, laser communication, and fibre optics.

**• Crafts and Design: Visual Arts**

*Three-year diploma*
Crafts and design (studio specialization in ceramics, fabrics, furniture, glass).

*Additional admission requirements:* those with past craft education and/or experience may be considered for direct entry into year 2 of the program, if the applicant requests an interview and presents a portfolio.

## Credit Valley Campus

**• Health Sciences**

*Three-year diploma*
Diploma nursing.

*Additional admission requirements:* applicant must be at least 17 years of age and have Grade 12 technical mathematics, English, and two of chemistry, physics, or biology at the senior level. Selection procedures involve a questionnaire and testing in mathematics and English. Achievement levels (grades) earned in the prerequisite courses will be "factored" into the applicant's admission profile.

*One-year certificate*
Nursing assistant.

*Additional admission requirements:* applicant must be at least 17 years of age; testing required in English and mathematics, questionnaire, information session. Contact the local Canada Employment Centre for more information.

## Milton Campus

**• Skills Development**

*Two-year diploma*
Heavy-equipment construction techniques.

*Additional admission requirements:* Grade 10 mathematics, Ontario class "G" driver's licence.

**• Alternative Learning**

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section. Contact the Skills Development/Apprenticeship Division at the college for further information.

*Continuing Education*
The Continuing Education Division offers a wide variety of part-time day and evening credit and non-credit courses as well as supervisory and management courses. See "Continuing Education" in the *General Information on Colleges of Applied Arts and Technology* section and consult the college calendar for details.

*Co-operative Education*
Sheridan College operates several co-operative programs that offer a combination of supervised paid-work experience and academics. Students will complete two academic terms, which are followed by alternating work and academic terms. Each work/study term is four months long. For more information, contact the Department of Co-operative Education.

*Distance Education and Teleconferencing*
For adult learners who can't attend on-campus sessions, Sheridan plans and delivers distance-education courses that are aired on cable TV stations in Halton and Peel regions and are available to those with VCRs. The college also presents videoconferences and teleconferences on-campus and on-site in industry.

*Skills Development/Apprenticeship Division*
Along with offering academic upgrading and apprenticeship programs, this division offers commercial refresher courses as well as mechanical and technical programs that provide students with marketable skills. For further information, contact the college's Skills Development Apprenticeship Division or the local Canada Employment and Immigration Centre (CEIC).

*Training and Leadership Development Division*
This division aims to meet the needs of local industries by providing courses to upgrade the knowledge and skills of employees at a minimal cost. Training can be provided at our campus locations or on-site at the industry's facility.

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**Additional Costs**
The estimated cost of books, supplies, and instruments for the academic year varies from $300 to $6 000, depending on the type of program. Please consult the college calendar or phone for more information.

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**Further Information**
*Please contact*
Registrar or Information Services
(School Liaison)
Sheridan College of Applied Arts and Technology
1430 Trafalgar Rd.
Oakville, Ontario L6H 2L1
Telephone
(416) 845-9430 (Oakville)
(416) 823-9730 (Brampton, Mississauga)
(416) 632-7081 (Burlington, Hamilton)

# Sir Sandford Fleming College of Applied Arts and Technology

## Peterborough, Lindsay

**President: Dr. Charles E. Pascal**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 3 324 |
| Part-time | 18 000 |

Sir Sandford Fleming College serves Peterborough, Victoria, and Haliburton counties, as well as Northumberland County's Hamilton Township. The Sutherland Campus in Peterborough and the Frost Campus School of Natural Resources in Lindsay are the college's major postsecondary facilities, offering a total of nearly 80 full-time programs. Numerous non-semestered programs, apprenticeships, and continuous learning and training oppportunities are also offered. In addition, Sir Sandford Fleming College operates facilities in Cobourg and Haliburton, the home of its Summer School of Fine Arts.

*Campus locations:*
*Sutherland Campus*
526 McDonnel St.
Peterborough, Ontario
K9J 7B1

Brealey Dr.
Peterborough, Ontario
K9J 7B1

*Frost Campus*
Box 8000
Lindsay, Ontario
K9V 5E6

Lakeshore Office
King St. Box 754
Cobourg, Ontario
K9A 4R5

Northern Office
Box 339
Haliburton, Ontario
K0M 1S0

## Sutherland Campus

**• School of Health and Applied Arts**

*Three-year diplomas*
Art conservation techniques, employment counsellor, nursing.
*Additional admission requirements:* refer to the college calendar.

*Two-year diplomas*
Correctional worker, creative arts administration, customs administration, early childhood education, general arts and science, law and security administration, loss prevention management, police education, recreation leadership, social service worker.
*Additional admission requirements:* refer to the college calendar.

**• School of Technology**

*Three-year diplomas (technology)*
Civil engineering, electrical engineering, electronic engineering, electro-mechanical engineering (robotics), industrial engineering, manufacturing engineering, metallurgical engineering (materials testing), quality engineering.
*Additional admission requirements:* refer to the college calendar.

*Two-year diplomas (technician).*
Audio-video graphics technician, civil engineering (construction), electrical engineering, electronic engineering, electronic engineering (telephone systems), electro-mechanical engineering (robotics), industrial engineering, mechanical engineering (design drafting), mechanical engineering (numerical control), mechanical engineering (tool and die), metallurgical engineering (materials testing).
*Additional admission requirements:* refer to the college calendar.

*Fifty-two-week diplomas (non-semestered)*
Electro-mechanical engingineering technician (robotics), electrical engineering (controls), electronic engineering (microcomputer), electronic engineering (telephone systems), industrial engineering, mechanical engineering (design drafting).
*Additional admission requirements:* refer to the college calendar.

**• School of Business**

*Three-year diplomas*
Business administration (accounting, data processing, general), marketing, materials management, office systems administration, personnel management, tourism and transportation (convention management, general, hospitality management).
*Additional admission requirements:* refer to the college calendar.

*Two-year diplomas*
Business (general, office management, sales merchandising), fashion merchandising, food and beverage management, food service supervisor, recreation merchandising, secretarial arts (executive, legal, medical, word processing), tourism and transportation (travel merchandising).
*Additional admission requirements:* refer to the college calendar.

*Sixty-four-week diploma (non-semestered)*
Computer programmer.

*One-year certificates*
Retailing, secretarial (executive, legal, medical, word processing).
*Additional admission requirements:* refer to the college calendar.

## Frost Campus

**• Resource Management Division**

*Three-year diplomas (technology)*
Fish and wildlife, forestry, parks and forest recreation, natural resources technology (law enforcement).
*Additional admission requirements:* appropriate technician diploma.

*Two-year diplomas (technician)*
Aquaculture, farm business management, fish and wildlife, forest recreation, forestry, pest control.
*Additional admission requirements:* Grade 12 (general level) mathematics and English.

**• Resource Services Division**

*Two-year diploma*
General arts and science.
*Additional admission requirements:* Grade 12 (general level) mathematics and English.

**• Resource Technology Division**

*Three-year diplomas (technology)*
Geotechnical, minerals engineering, thematic cartographic.
*Additional admission requirements:* appropriate technican diploma.

*Two-year diplomas (technician)*
Cartographic, geological (geotechnical), geological (minerals), heavy equipment, resources drilling, terrain and water resources.
*Additional admission requirements:* Grade 12 (general level) mathematics and English.

*Fifty-two-week diplomas (non-semestered)*
Geographic information systems technician.
*Additional admission requirements:* Grade 12 (general level) mathematics and English.

**• Other Programs**
Boat top repair, computer numerical control, entrepreneurship and venture management, forest development worker, geographic information systems technician (remote sensing), industrial management.

**• Alternative Learning**

*Apprenticeship*
For programs, see the CAAT chart at the beginning of this section. For details, see the *Apprenticeship* section.

*Industrial based training*
A variety of federal and provincial training programs are offered, as well as custom-designed courses for business and industry.

*Continuing education*
Sir Sandford Fleming College offers comprehensive continuing education evening programs in applied arts, business, health studies, and technical areas. Many non-credit subjects of general interest are offered in Peterborough, Lindsay, Cobourg, Haliburton, and other areas. A variety of arts and crafts courses are offered at the School of Fine Arts in Haliburton during July and August. Weekend workshops are offered in the fall.

**• Non-semestered programs**
Sir Sandford Fleming College offers a variety of non-semestered and short programs:
a) Academic and employment training: basic training for skill development, Futures, Ontario Basic Skills.
b) College qualifying.
c) Skills training: commercial refresher, drilling and blasting, forest nursery worker, hardwood lumber inspection, machine shop, residential building renovations, welder fitter, women in trades and technology, word processing operator, urban tree maintenance worker.

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**Further Information**
*For further information on admission requirements and full-time postsecondary programs offered, please contact*
Admissions Office
Sir Sandford Fleming College of Applied
Arts and Technology
Sutherland Campus
526 McDonnel St.
Peterborough, Ontario K9J 7B1
Telephone (705) 743-5620 or 1-800-461-1785
or

Admissions Office
Sir Sandford Fleming College of Applied
Arts and Technology
School of Natural Resources
Frost Campus
P.O. Box 8000
Lindsay, Ontario K9V 5E6
Telephone (705) 324-9144 or 1-800-461-0340

*Information on student financial assistance may be obtained from*
Financial Aid Officer
Sir Sandford Fleming College of Applied
Arts and Technology
Sutherland Campus
Brealey Dr.
Peterborough, Ontario K9J 7B1
or
Financial Aid Officer
Sir Sandford Fleming College of Applied
Arts and Technology
School of Natural Resources
Frost Campus
P.O. Box 8000
Lindsay, Ontario K9V 5E6

# Apprenticeship

**What is apprenticeship?**
Put simply ... apprenticeship is an agreement between a person like you who wants to learn a skill and an employer who needs a skilled worker.

Both you and your employer will benefit from apprenticeship. In exchange for your services, you will have the opportunity to learn skills that can provide you with a rewarding career. Your employer will gain a productive, skilled worker.

Apprenticeship is a proven way to train. Canadians trained through apprenticeship have been part of the teams that created:

- the space arm on the U.S. shuttlecraft
- the CN Tower, the world's tallest free-standing structure
- the Urban Transport Development Corporation train – the train of the future
- gourmet meals for world-renowned restaurants and hotels.

Skilled workers, trained through apprenticeship, bake your bread, fix your car, build your home, and print what you are reading now. You too can learn these skills.

Apprenticeship training is administered by the Ministry of Skills Development, under the Apprenticeship and Tradesmen's Qualification Act.

**Learn by doing, and earn at the same time!**
The best way to learn something is to do it! That's the basis of apprenticeship. Depending on the skilled trade, the length of your training will range from two to five years. During that time, the wage you receive from your employer will never be less than Ontario's minimum wage. In fact, as your productivity improves with increasing skill, so will your pay.

About 90% of the apprenticeship program will be on-the-job training. The remainder is usually spent at a college of applied arts and technology, which provides the additional instruction needed to complete your training. When attending college, you may be able to receive financial support from the Canada Employment and Immigration Commission.

The following pages show, for each trade, the number of hours you will spend on the job and in the classroom. Also listed for the major trades are the skills you will learn during your apprenticeship.

**Choose a trade**
More than 60 skilled trades regulated in Ontario have their own apprenticeship training programs.

Regulated trades are governed by Ontario regulations under the Apprenticeship and Tradesmen's Qualification Act. These regulations outline the standards and conditions of training for specific trades.

There are also apprenticeship programs designed to provide specific job skills for more than 560 employer-established trades.

The regulated and employer-established trades are grouped into four categories: construction, industrial, motive power, and service. In addition, there is a list of miscellaneous employer-established trades at the end of this section.

**What are the entrance standards?**
For most trades, the minimum educational requirement is Grade 10 or its equivalent. Employers and unions, however, may insist that applicants have higher academic standards, with credits in specific subjects. Remember that additional education is an asset in the pursuit of any career.

**How long does an apprenticeship last?**
The duration of an apprenticeship is measured in hours: for example, 9 000 hours for a motor vehicle mechanic, 8 000 hours for a tool and die maker, 3 600 hours for an automotive painter.

The training is divided into periods: for example, five periods of 1 800 hours each for a motor vehicle mechanic, four periods of 2 000 hours each for a tool and die maker, two periods of 1 800 hours for an automotive painter.

**Credits for academic and skill achievement**
Academic and skill achievement beyond the minimum level required for a particular trade may reduce the length of an apprenticeship training program.

A training consultant from an Apprenticeship Branch Office of the Ministry of Skills Development can assist you in determining your eligibility for apprenticeship credits, which with the consent of your employer can be subtracted from the total training time.

**Find an employer ... become an apprentice**
In order to become an apprentice, you must first find an employer who will agree to provide training. You should check with the local Canada Employment Centre for information on job opportunities for apprentices in specific trades or areas of the province. An Apprenticeship Branch training consultant may also be able to identify employers who wish to hire an apprentice. Then, it's up to you!

When you are hired as an apprentice, you and your employer are required to sign a contract that specifies the conditions of work, hours, wages, and training. If you are under 18 years of age, a parent or guardian must also sign the contract, since it is a legal agreement between you and your employer. The Ministry of Skills Development registers and retains a copy of this contract.

Throughout your apprenticeship, your training consultant will assist you and your employer to fulfil the requirements of your training program.

**Certificate of Apprenticeship and Certificate of Qualification**
Upon successful completion of your apprenticeship training you will be issued a Certificate of Apprenticeship. In regulated trades, you must also successfully complete a final examination, and a Certificate of Qualification will be issued. About 20 regulated trades have interprovincial standards examinations, and a mark of more than 69% will entitle you to receive an Interprovincial Red Seal, which permits you to practise your trade in any Canadian province without further examination. Trades in which a Red Seal is available are marked with an asterisk (*).

**Compulsory and voluntary certification**
In certain regulated trades, certification is *compulsory:* only holders of a Certificate of Qualification or registered apprentices can work in these trades. Compulsory trades include electrician, plumber, and motor vehicle mechanic, to name a few.

Regulated trades with *voluntary* certification, such as cook, tool and die maker, farm equipment mechanic, and construction millwright, do not require a Certificate of Qualification. However, this certificate does indicate that the holder has reached a recognized level of skill, which many employers now look for.

**More information**
For more detailed information on the apprenticeship system, specific trades, and their training schedules, contact the nearest Apprenticeship Branch Office of the Ministry of Skills Development. These offices are listed at the end of this section.

## • Construction Trades Regulated

**Brick and Stone Mason***
*Educational requirements*
Grade 8 or equivalent.

*Length of program*
Four periods of 1400 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Constructs and erects walls, arches, fireplaces, chimneys, smokestacks, and other items of brick and stone masonry components; lays firebrick and other refractory materials in walls and arches in the construction of furnaces, or in lining furnaces and retorts, or in enclosing boilers, tanks, and heat-treating furnaces.

**Cement Mason**
*Educational requirements*
Grade 8 or equivalent.

*Length of program*
Three periods of 2000 hours each.

*Duties and skills*
Finishes concrete flooring by hand or with mechanical equipment, including the application of curing and surface treatments; carries out all phases of waterproofing and restoration of concrete; rubs up and repairs hardened concrete surfaces; places and finishes epoxy, plastic, and other composition materials; finishes and exposes aggregate in pre-cast and architectural concrete.

**Construction Boilermaker***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 1650 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Lays out, assembles, and erects boilers, pressure vessels, and heat exchangers, and repairs component parts; reads and understands drawings, specifications, technical literature, and manufacturers' and safety regulations; fits plates, connects steel members, drills, reams, bolts, rivets, welds, and rigs; stress-relieves and tests pressure vessels and enclosures, using air, water, smoke, and other methods.

**Construction Millwright**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Installs, repairs, and maintains mechanical machines, their components, and related devices and systems in industrial plants, commercial and institutional buildings, or construction sites; has a broad knowledge of metallurgy, welding, blueprint reading, and the use of precise measuring instruments.

**Electrician (Construction and Maintenance)***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Five periods of 1800 hours each, including one in-school session of 10 weeks and two of 8 weeks each.

*Duties and skills*
Lays out, assembles, installs, repairs, maintains, connects, or tests electrical fixtures, apparatus, control equipment, and wiring for systems of alarm, communication, light, heat, or power in buildings or other structures; plans proposed installations from blueprints, sketches, or specifications, or installs panel boards, switch boxes, pull boxes, and other related electrical devices.

**Electrician (Domestic and Rural)**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 1800 hours each, including one in-school session of 10 weeks and two of 8 weeks each.

*Duties and skills*
Performs the work of an electrician in the construction, erection, repair, remodelling, or alteration of houses, multiple-dwelling buildings containing six or fewer dwellings, or buildings or structures used for farming; performs maintenance to electrical equipment in houses, multiple-dwelling buildings containing six or fewer dwellings, or farm buildings or structures.

**General Carpenter***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
3844 hours minimum, 7200 hours maximum, including two in-school sessions of 10 weeks each.

*Duties and skills*
Does the woodwork in the erection, alteration, or repair of structures; builds and erects forms for concrete; erects scaffolds, partitions; places door frames and window frames; lays floors; prepares walls and ceilings for plastering; installs interior fixtures and kitchen cupboards, and prepares and erects panels; lays out and erects stairs and handrails; fits and fixes hardware; fits doors, windows, and fixtures; weatherproofs outside walls.

**Glazier and Metal Mechanic**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Performs layout, fabrication, assembly, and installation of extruded frames, hardware, store fronts, wall facings, manual sliding doors, window sashes, manual door closers, automatic door operators, and curtain walls; performs layout, fabrication, assembly, and installation of suspended glass fronts, stuck glass fronts, art glass, aquariums, and similar special products; cuts, fits, and installs glass in wood and metal frames for windows, skylights, store fronts, display cases, building fronts.

**Hoisting Engineer**
This trade comprises two branches:
Branch 1 – mobile crane operator
Branch 2 – tower crane operator

*Educational requirements:*
Grade 10

*Length of program*
Branch 1 – Mobile Crane Operator
Three periods of 2000 hours each, including two in-school sessions of 6 weeks.

Branch 2 – Tower Crane Operator
Two periods of 2000 hours each, including one in-school session of 6 weeks.

*Duties and skills*
Branch 1 – Mobile Crane Operator
Maintains and operates any mechanical device or structure incorporating a power-driven drum and wire rope that is used for raising, lowering, or moving material and is equipped with a boom capable of moving in the vertical plane and mounted on a base or chassis intended to provide mobility; such mobile cranes may be crawler or wheel mounted.

Branch 2 – Tower Crane Operator
Maintains and operates any mechanical device or structure incorporating a power-driven drum, boom and wire rope that is used for raising, lowering, or moving material and utilizing a vertical mast or tower and jib; such tower cranes may be of the travelling, fixed, or climbing type.

**Ironworker**
*Educational requirements*
Grade 10 or equivalent and 17 years of age.

*Length of program*
Three periods of 2000 hours each, including one in-school session of 8 weeks and two of 7 weeks.

*Duties and skills*
Field-fabricates, assembles, installs, handles, hoists, erects, dismantles, reconditions, adjusts, alters, repairs, or services all structural iron work, pre-cast and pre-stressed concrete, concrete reinforcing materials, ferrous and non-ferrous materials in curtain wall, ornamental and miscellaneous metal work, and all other materials used in lieu thereof.

**Lather**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 1800 hours each, including two in-school sessions of 10 weeks each.

*Duties and skills*
In the construction or repair of walls, partitions, ceilings, and arches in any structure: installs by tying, nailing, clipping, or welding wire, metal, or wood lath, plaster board, or other materials and accessories to serve as a base for plaster, cement, or acoustic material; erects plastic and light metal studs, frames, and accessories to receive plaster board and wire and metal lath.

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*Red Seal trade

*Red Seal trade

**Lineman**
This trade comprises two branches:
Branch 1 – power lineman
Branch 2 – construction lineman

*Educational requirements*
Both branches:
Grade 10 or equivalent.

*Length of program*
Branch 1 – Power Lineman
Four periods of related training and work experience of 2000 hours each.

Branch 2 – Construction Lineman
Three periods of related training and work experience, one of 2500 hours and two of 2000 hours each.

*Duties and skills*
Branch 1 – Power Lineman
Operates, maintains, and services overhead and underground power lines used to conduct electricity from generating plants to consumers.

Branch 2 – Construction Lineman
Constructs or assembles a system of power lines used to conduct electricity from generating plants to consumers.

**Painter and Decorator**
This trade comprises two branches:
Branch 1 – commercial/residential
Branch 2 – industrial

*Educational requirements*
Both branches
Grade 10 or equivalent.

*Length of program*
Branch 1 – Commercial/Residential
Three periods of related training and work experience of 1800 hours each, including one in-school session of 8 weeks and two of 7 weeks.

Branch 2 – Industrial
Two periods of related training and work experience of 1800 hours each.

*Duties and skills*
Branch 1 – Commercial/Residential
Prepares and performs interior and exterior work to plaster, wallboard, wood, metal, concrete masonry, stucco, and allied materials; prepares and works with steam wallpaper-stripping machines, and applies wall coverings, wallpaper, grass cloth, wood veneer, vinyl fabrics, and allied materials.

Branch 2 – Industrial
Prepares and performs interior and exterior work to plaster, wallboard, wood, metal, concrete masonry, stucco, and allied materials; prepares and performs work by mechanical processes, blow torches, spray guns, and sandblasting.

**Plasterer**
*Educational requirements*
Grade 8 or equivalent.

*Length of program*
Four periods of 1600 hours each.

*Duties and skills*
Applies plaster and stucco to the walls and ceilings, whether interior or exterior, of a structure; applies plaster and stucco on lath, masonry, and rigid insulation; tapes gypsum panels and wallboard.

**Plumber***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Lays out, assembles, installs, maintains, or repairs in any structure, building, or site, piping, fixtures, and appurtenances for the supply of water for any domestic or industrial purpose or for the disposal of water after it has been used for a domestic or industrial purpose.

**Refrigeration and Air-conditioning Mechanic***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Installs or assembles any component of a refrigerating or air-conditioning system; assembles or connects any pipe or duct used in piping refrigerant or conditioned air; overhauls or repairs any equipment used in refrigerating or air-conditioning systems.

**Sheet Metal Worker***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Manufactures, fabricates, assembles, handles, erects, installs, dismantles, reconditions, adjusts, alters, repairs, or services all ferrous and non-ferrous sheet metal work of No. 10 US gauge, or of any equivalent or lighter gauge, and all other materials used in lieu thereof.

**Sprinkler and Fire Protection Installer***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 1800 hours each, including two in-school sessions of 7 weeks and one of 8 weeks.

*Duties and skills*
Lays out, assembles, installs, tests, and maintains high and low pressure pipeline systems for supplying water, air, foam, carbon dioxide, or other materials to or for fire protection systems.

**Steamfitter***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Five periods of 1800 hours, including three in-school sessions of 8 weeks each.

*Duties and skills*
Lays out, assembles, installs, maintains, or repairs any heating system, cooling system, process system, or industrial system; installs or connects piping in any building or structure; installs the piping for any process, including a process that conveys gas, or the tubing for any pneumatic or air-handling system.

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*Red Seal trade

*Red Seal trade

- **Construction Trades**
  **Non-regulated**

**Draftsman (Architectural)**
*Educational requirements:*
Grade 10 or equivalent.

*Length of program*
Three periods of 2000 hours each.

*Duties and skills*
Prepares drawings showing internal, external, or other architectural features of office blocks, residential structures, and industrial, commercial, and other buildings.

**Drywall and Acoustic Mechanic**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 1500 hours each.

*Duties and skills*
Applies wallboard sheets to ceilings and interior walls of buildings; installs thermal acoustic insulation and sound-absorption materials.

**Terrazzo, Tile, and Marble Setter**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each.

*Duties and skills*
Installs decorative surfacings composed of cement, sand, pigment or chemical compounds, marble, or other aggregates on floors, stairs, and other surfaces.

- **Industrial Trades**
  **Regulated**

**Fitter (Structural Steel/Platework)**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 1800 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Reads and interprets blueprints; performs measuring, checking, and layout operations; assembles metal plates and sections, moves finished products using cranes, slings, or other lifting equipment.

**Machinist***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 1500/2000 hours each (8000 hours maximum), including three in-school sessions of 8 weeks each.

*Duties and skills*
Sets up and operates various types of precision metal-cutting and grinding machines to close tolerances; has a broad understanding of metallurgy; is familiar with the use and care of precision measuring equipment; has a detailed knowledge of blueprint reading.

**Industrial Mechanic (Millwright)***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each, including three sessions of in-school training of 8 weeks each.

*Duties and skills*
Installs, repairs, and maintains mechanical machines, their components, and related pneumatic and hydraulic systems in industrial plants or specific process areas; has a broad knowledge of metallurgy, welding, blueprint reading, and the use of precision measuring instruments.

**Industrial Woodworker**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Sets up and operates a variety of machinery used in the construction and fabrication of products manufactured from wood and related materials, such as cabinets, furniture, doors, and door frames.

**Mould Maker**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Makes, repairs, and modifies moulds, models, and templates, etc.; has a detailed knowledge of blueprint and drawing interpretation, plastics, and processing methods and equipment.

**Printer**
This trade comprises eight branches:
Branch 1 – letterpress (job shop)
Branch 2 – lithography (job shop)
Branch 3 – offset pressman (plant)
Branch 4 – linotype operator
Branch 5 – compositor
Branch 6 – pressman (letterpress)
Branch 7 – compositor (phototypesetting)
Branch 8 – compositor and camera technician

*Educational requirements*
All branches
Grade 10 or equivalent.

*Length of program*
Branches 1-7
Four periods of related training and work experience of 2000 hours each.

Branch 8
Five periods of related training and work experience of 2200 hours each.

*Duties and skills*
Branch 1 – Letterpress (Job Shop)
Operates printing presses, feed and delivery systems; mixes and matches ink; performs finishing processes in bindery; performs routine maintenance of equipment; handles paper, ink, and other supplies; composes type; produces, reads, and corrects proofs; makes up pages; uses photoengravings, electrotypes, and rubber and plastic plates.

Branch 2 – Lithography (Job Shop)
Operates and maintains lithographic process printing presses; performs bindery and other finishing operations; prepares photographic and plate-coating solutions; handles paper, ink, and chemicals; performs layout operations; composes type; reads and marks proofs; performs camera copy reproduction; uses various types of cameras and filters; develops film; produces various types of plates.

Branch 3 – Offset Pressman (Plant)
Operates press; installs plate and checks registration; removes and cleans plate and cylinders at end of run.

Branch 4 – Linotype Operator
Operates keyboard-controlled typecasting machine to cast in metal lines of type.

Branch 5 – Compositor
Sets type by hand or machine, and assembles type and cuts in galleys; determines type size, style, and layout from worksheet; cleans type after use, and sorts and stores letters and spacers; may operate proof press to take proofs; carries out bindery and other finishing operations.

Branch 6 – Pressman (Letterpress)
Performs routine maintenance of equipment; sets up letterpress printing press and colour position; mixes special colour inks; inspects and handles paper rolls; operates main level of press.

Branch 7 – Compositor (Phototypesetting)
Understands hot, cold, and non-metallic composition and colour printing; operates various types of printing presses and binding equipment; handles paper and other printing stock; does adver-

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*Red Seal trade

tising artwork and layout; designs business forms; composes advertising, forms, and books; lays out pages in correct order for press; performs colour separations.

Branch 8 – Compositor and Camera Technician
Performs routine maintenance of equipment; prepares photographic solutions and files negatives, chemicals, and supplies; uses phototypesetting, hand lettering, and transfer lettering in layouts and page and display composition; uses mechanical colour, register systems; uses various types of cameras; selects proper film and colour-proofing materials for use in contact printing; processes film.

**Tool and Die Maker**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Makes, repairs, and modifies dies, forms, cutting tools, gauges, jigs, and fixtures; works to close tolerances; has a detailed knowledge of blueprint reading and interpretation; should have a broad understanding of metallurgy and a working knowledge of the use, care, and operation of machine tools and related equipment.

**• Industrial Trades**
**Employer-established**

**Carpenter (Plant)**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 1800 hours each.

*Duties and skills*
In an industrial plant or industrial processing area, cuts, shapes, assembles, erects, and maintains various types of wood structures and fittings, using hand and power tools; makes, alters, and repairs structural woodwork and objects.

**Chemical Plant Operator**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 2000 hours each.

*Duties and skills*
Operates control panels that control distillation trains, chemical reactors, pumps, compressors, and heat exchangers; operates and controls filters, blenders, and steam, electric, and gas heating devices, decanters, mixers, dryers, pumps, compressors, vacuum jets and pumps, conveyors, fans, and blowers; fills containers, tank cars, tank trucks, and storage tanks.

**Draftsman (Mechanical)**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 2000 hours each.

*Duties and skills*
Prepares working plans and other technical drawings from sketches or notes for machines, engines, jigs and fixtures, mechanical equipment, and various types of products for engineering, manufacturing, illustrative, and other purposes.

**Electrician (Plant Maintenance)**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each.

*Duties and skills*
In an industrial plant, installs conduit, junction boxes, and switches; pulls, insulates, and seals cables; installs, aligns, hooks up, and tests machines; installs lighting, control, communications, and heating systems; overhauls and repairs AC and DC motors and generators.

**Electronics Mechanic (Industrial Control)**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each.

*Duties and skills:*
Installs, tests, calibrates, and repairs electronic control, monitoring, and communications equipment in an industrial plant.

**Patternmaker**
*Length of program*
8000 hours.

*Duties and skills*
Builds, shapes, or repairs wood and metal patterns to drawings or specifications, using trade-related hand and power tools, wood-working machines, and machine tools; makes or repairs patterns, including die-block patterns, following blocks for die-sinking machines, using gypsum plasters and cements, poured resin, or fibreglass and resin lay-ups; machines and finishes to drawings or specifications.

**Sheet Metal Worker (Plant)**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each.

*Duties and skills*
In an industrial plant: fabricates, installs, or repairs sheet metal products used for plant maintenance, dust collection, ventilation systems, and plant processes.

**Welder (Arc and Gas)**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each.

*Duties and skills*
Welds metal parts together, according to layouts, blueprints, or work orders, using both gas welding and any combination of arc welding processes such as manual, automatic and semi-automatic, inert gas, and submerged arc; may perform flame-cutting and grinding.

*Other information*
To weld on boilers, pressure vessels, and pressure piping, it is necessary to pass qualification tests specified by the Ontario Ministry of Consumer and Commercial Relations, Technical Standards Division, Pressure Vessels Safety Branch.

## • Motive Power Trades
## Regulated

**Air-cooled and Marine Engine Mechanic**
This trade comprises four branches:
Branch 1 – small engine mechanic
Branch 2 – marina and small powered equipment mechanic
Branch 3 – small engine mechanic (construction)
Branch 4 – boat motor mechanic

*Educational requirements*
All branches
Grade 10 or equivalent.

*Length of program*
Branches 1-3
Two periods of 2000 hours each, including two in-school sessions of 10 weeks each.

Branch 4
Four periods of 1800 hours each, including two in-school sessions of 10 weeks each.

*Duties and skills*
Branch 1 – Small Engine Mechanic
Repairs small air-cooled gasoline and diesel engines used to power lawnmowers, snowblowers, chainsaws, garden tractors, snowmobiles, portable pumps, and generator sets, as well as air- or water-cooled outboard motors.

Branch 2 – Marina and Small Powered Equipment Mechanic
Tests and inspects, locates faults in, maintains, repairs, overhauls, and prepares for storage small air- and water-cooled gasoline and diesel engines used to power motor boats and small powered equipment; cleans, maintains, repairs and refinishes wooden, aluminum, and fiberglass boat hulls and fittings.

Branch 3 – Small Engine Mechanic (Construction)
Repairs small air- and water-cooled internal combustion engines used to power construction tools and equipment: chainsaws, small tractors, portable pumps, air compressors, and generator sets.

Branch 4 – Boat Motor Mechanic
Installs, repairs, adjusts, overhauls, or converts gasoline and diesel boat motors, clutches, gearboxes and reduction gears, shafts, propellers, steering gear, controls, instruments, and fuel, ignition, electrical, cooling, and exhaust systems.

**Alignment and Brakes Mechanic**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

*Duties and skills*
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles front and rear suspension systems and brake system components, including such items as wheels, tires, springs, and shock absorbers; inspects frame alignment and realigns as necessary.

**Auto Body Repairer***
*Educational requirements*
Grade 8 or equivalent.

*Length of program*
Four periods of 1800 hours each, including two in-school sessions of 8 weeks each.

*Duties and skills*
Hammers out dents in body panels, fenders, and skirting; files, grinds, sands, fills, and finishes ready for priming any dented or pierced area; uses heat to shrink or stretch metal panels; welds breaks in body areas; tests for and corrects faulty alignment of frames.

**Automotive Machinist**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 1800 hours each, including one in-school session of 8 weeks and two of 7 weeks.

*Duties and skills*
Reconditions and rebuilds internal combustion engines and associated components; reconditions power trains and brake and suspension system components.

**Automotive Painter**
*Educational requirements*
Grade 8 or equivalent.

*Length of program*
Two periods of 1800 hours each, including one in-school session of 8 weeks.

*Duties and skills*
Sands, fills, primes, and applies finishing paint; dries and bakes newly painted surfaces; mixes paints and ingredients and matches colours; refinishes galvanized outer panels and anodized aluminum mouldings.

**Farm Equipment Mechanic**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Five periods of 1800 hours each, including one in-school session of 14 weeks and two of 8 weeks each.

*Duties and skills*
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of farm machinery, including steering mechanisms, brakes, engines, power trains, and suspension, air conditioning, fuel, and electrical systems.

**Fuel and Electrical Systems Mechanic**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

*Duties and skills*
Diagnoses faults in, disassembles, adjusts, services, repairs, and assembles components of motor vehicles, including electrical, fuel, ignition, and air conditioning systems; performs minor and major engine tune-ups.

**Heavy Duty Equipment Mechanic***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Five periods of 1800 hours each, including one in-school session of 12 weeks and two of 7 weeks.

*Duties and skills*
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of heavy duty equipment, including steering mechanisms, brakes, engines, power trains, and suspension, fuel, and electrical systems.

**Motorcycle Mechanic**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

*Duties and skills*
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, and overhauls all components of motorcycles, including forks, frames, brakes, engines, power trains, and suspension, fuel, and electrical systems.

**Motor Vehicle Mechanic**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Five periods of 1800 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of motor vehicles, including steering mechanisms, brakes, engines, power trains, and suspension, air conditioning, fuel, and electrical systems.

*Other information*
An alternative program to this is the three-year motor vehicle mechanic apprenticeship program (MAP 40). Under this program, the apprentice attends a 40-week in-school program immediately after being registered and before going on to the on-the-job phase of training. This program is divided into five periods, the first being 1600 hours, and each subsequent period 1080 hours. The apprentice receives a training allowance for the first period while at school. This is a popular program since jobs are found for the apprentices, but enrolment is limited. A further alternative is the day release program, under which apprentices attend school one day per week over the term of their apprenticeship (available only to apprentices in the Durham College area).

**Transmission Mechanic**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 1800 hours, including two in-school sessions of 8 weeks each.

*Red Seal trade

*Red Seal trade

*Duties and skills*
Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all motor vehicle transmissions, both automatic and standard, and drive shafts; is familiar with the effects of other components of motor vehicles on the operation of transmissions and drive shafts.

**Truck-Trailer Repairer**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 1800 hours each, including two in-school sessions of 8 weeks each.

*Duties and skills* Inspects, diagnoses faults in, disassembles, adjusts, services, repairs, overhauls, and assembles all components of truck trailers, including suspension systems, frames, brakes, and electrical and air conditioning systems.

## • Service Trades Regulated

**Baker**
This trade comprises three branches:
Branch 1 – junior baker
Branch 2 – baker
Branch 3 – patissier

*Educational requirements*
All branches
Grade 8 or equivalent.

*Length of program*
Branch 1 – Junior Baker
One period of 2000 hours, including one in-school session of 15 weeks.

Branch 2 – Baker
Three periods of 2000 hours each, including two in-school sessions of 15 weeks each.

Branch 3 – Patissier
Four periods of 2000 hours each, including two in-school sessions of 15 weeks and one session of 5 weeks.

*Duties and skills*
Branch 1 – Junior Baker
Prepares ingredients, straight dough, different types of fermented goods, pies, sweet and puff paste goods, cookies, muffins, tea biscuits, and doughnuts; assists in bakery formulation and fermentation processes.

Branch 2 – Baker
Supervises bakery formulation, fermentation, stock control, receiving and issuing, product costing, and ingredient and material purchasing; prepares puddings and desserts, pastry and choux paste, bread and rolls, icings and fillings, and cakes and creams.

Branch 3 – Patissier
Prepares specialty cakes, pastries, petits fours, chocolate and couverture specialty cookies, wedding cakes, desserts, almond paste, and gum paste, and decorates desserts.

**Cook**
This trade comprises two branches:
Branch 1 – assistant cook
Branch 2 – cook*

*Educational requirements*
Both branches
Grade 10 or equivalent.

*Length of program*
Branch 1 – Assistant Cook
One period of 2000 hours, including one in-school session of 15 weeks.

Branch 2 – Cook
Three periods of 2000 hours each, including two in-school sessions of 15 weeks each.

*Duties and skills*
Branch 1 – Assistant Cook
Prepares and assembles complete breakfasts, short-order grills, sandwiches, simple salads, simple desserts, vegetables, and non-alcoholic beverages; carves cooked meats, poultry, and game; has a working knowledge of table service, soups, and sauces.

Branch 2 – Cook
Prepares and assembles complete meals, short-order grills, sandwiches, vegetables, hot and cold buffets, salads and dressings, desserts, and non-alcoholic beverages; carves cooked meats, poultry, fish, and game; has a working knowledge of table service; has a knowledge of stock control, menu planning, and food costing and purchasing.

**Dry Cleaner**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 900 hours each, including a correspondence course for related in-school training.

*Duties and skills*
Operates machines to dry clean – with chemical solutions – clothing, textile furnishings, and similar articles.

**Hairstylist**
This trade comprises three branches:
Branch 1 – barber
Branch 2 – hairdresser
Branch 3 – hairstylist

*Educational requirements*
All branches
Grade 9 or equivalent.

*Length of program*
Branches 1 and 2 – Barber and Hairdresser
Three periods of 1500 hours each, including two in-school sessions of 8 weeks each.

Branch 3 – Hairstylist
Three periods of 1580 hours each, including three in-school sessions of 8 weeks each.

*Duties and skills*
All branches
Tints, bleaches, or dyes hair; shampoos hair and scalp; gives hair and scalp treatments; cuts and trims hair; curls or waves hair by any means; combs or brushes hair; shapes, colours, or treats eyebrows or eyelashes; in addition, Branch 1, barber, shaves or trims beards or moustaches; Branch 2, hairdresser, gives facials and manicures and applies make-up; Branch 3, hairstylist, performs all of the above.

*Other information*
A person may also become a barber, hairdresser, or hairstylist by successfully completing a ministry-approved program offered by a licensed private school, a college of applied arts and technology, or a high school. A list of schools in Ontario is available from the Ministry of Skills Development, Apprenticeship Branch.

**Horticulturist**
This trade comprises two branches:
Branch 1 – Nursery, Garden Centre, and Greenhouse Worker
Branch 2 – Groundskeeper, Greenskeeper, and Landscaper

*Educational requirements*
Both branches
Grade 10 or equivalent.

*Length of program*
Both branches
Three periods of 2000 hours each.

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*Red Seal trade (for branch 2 only)

*Duties and skills*
Branch 1 – Nursery, Garden Centre, and Greenhouse Worker
Plants, cultivates, and harvests trees, shrubs, and ornamental and flowering plants; plants, transplants, and sells related horticultural products.

Branch 2 – Groundskeeper, Greenskeeper, and Landscaper
Prepares sites by excavating, hauling, and spreading soils and aggregates; develops and maintains turf and fine turf by fertilizing, seeding, sodding, regrading, and irrigating; plants, prunes, and cultivates trees, shrubs, flowers, and bulbs; maintains flowers, shrubs, trees, and all other related plant materials; installs flagstones, concrete, asphalt, and timber in the construction of landscape areas; develops and maintains recreational and ancillary areas.

**Radio and TV Service Technician***
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 2000 hours each, including two in-school sessions of 18 weeks each.

*Duties and skills*
Installs, adjusts, and repairs radio and television receivers and other domestic electronic equipment. *Does not include* the manufacture of radio, television, amplifier, or other related electronic equipment; and does not necessarily include the repair and maintenance of such equipment in an industrial plant, or the wiring of such equipment to an external power source.

- **Service Trades**
  **Employer-established**

Note: All employer-established trades are generally covered by Regulation 36, section 6.

**Butcher**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Four periods of 1800 hours each.

*Duties and skills*
Carries out slaughtering, skinning, cleaning, and hanging operations, bones and trims various types of meat carcasses – i.e., beef, veal, lamb, and pork – into marketable retail cuts; may make various kinds of sausages and prepare special meats and fancy meat products.

**Furrier**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Three periods of 2000 hours each.

*Duties and skills*
Makes, alters, restyles, and repairs fur garments; estimates cost of new garments, alterations, renovations, and repairs.

**Retail Meat Cutter**
*Educational requirements*
Grade 10 or equivalent.

*Length of program*
Two periods of 2000 hours each, including one in-school session of 18 weeks.

*Duties and skills*
Bones and trims various types of meat carcasses – i.e., veal, beef, lamb, and pork – into marketable retail cuts; may make various types of sausages and prepare special meats and fancy meat products; may also carry out poultry and fish preparation.

- **Miscellaneous**
  **Employer-Established Programs**

There are training schedules for over 560 employer-established programs in Ontario. Some of the more popular ones are listed here, along with the number of training hours involved in each. Graduate apprentices are awarded Certificates of Apprenticeship as evidence of having attained a provincially recognized level of knowledge and skill.

New apprenticeship training programs can be developed on request. The programs are usually custom-designed to meet the exact requirements of individual jobs and employers.

Auto Upholsterer
Three periods of 1800 hours each.

Electro-Plater
Four periods of 1800 hours each.

Foundryman (Coremaker)
Two periods of 2000 hours each.

Foundryman (Moulder)
Four periods of 2000 hours each.

Ironworker (Plant)
Three periods of 2000 hours each.

Jockey
Three periods of 1800 hours each.

Optics Technician
(Lens and Prism Maker)
Four periods of 2000 hours each.

Pipefitter (Industrial)
Three periods of 2000 hours each.

Plastics Technician
Three periods of 2000 hours each.

Plumber (Plant)
Four periods of 2000 hours each.

Ship Builder (Joiner)
Four periods of 2000 hours each.

Ship Builder (Ship Plater)
Four periods of 2000 hours each.

Steel Mill Worker (Blast Furnace)
Four periods of 2000 hours each.

Steel Mill Worker (Rolling Mill)
Four periods of 2000 hours each.

Upholsterer (Furniture)
Four periods of 2000 hours each.

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*Red Seal trade

## • Apprenticeship Branch Offices

For more information, please contact a training consultant at the Apprenticeship Branch Office nearest you.

| | |
|---|---|
| Barrie | (705) 737-1431 |
| Belleville | (613) 968-5558 |
| Brantford | (519) 756-5197 |
| Brockville | (613) 342-5481 |
| Chatham | (519) 354-9100 |
| Cornwall | (613) 938-9702 |
| Hamilton | (416) 521-7764 |
| Kenora | (807) 468-3325 |
| Kingston | (613) 547-4338 |
| London | (519) 453-7190 |
| Mississauga | (416) 897-1551 |
| North Bay | (705) 474-5546 |
| Oakville | (416) 842-2454 |
| Oshawa | (416) 576-0171 |
| Ottawa | (613) 731-7100 |
| Owen Sound | (519) 376-5790 |
| Pembroke | (613) 735-3911 |
| Peterborough | (705) 743-4172 |
| St. Catharines | (416) 684-8543 |
| Sarnia | (519) 542-7705 |
| Sault Ste. Marie | (705) 942-4420 |
| Sudbury | (705) 675-4481 |
| Thunder Bay | (807) 475-1605 |
| Timmins | (705) 264-2354 |
| Toronto Central | (416) 965-4211 |
| Toronto East | (416) 750-3533 |
| Waterloo | (519) 884-5460 |
| Windsor | (519) 254-8654 |

Toll-free calling may be available in your area; look under *Government-Ontario* in your telephone book.

**Occupational Health and Safety**
Information about the Occupational Health and Safety Act, 1978, and related matters is available from the Ministry of Labour and the faculties of universities and community colleges throughout Ontario. Occupational Health and Safety Resource Centres are operated by Queen's University, Lakehead University, the University of Waterloo, and the University of Western Ontario.

## General Information on Ontario Universities

**Admission to Bachelor and First Professional Programs at University**

1. Achievement of the Ontario Secondary School Honours Graduation Diploma (OSSHGD), awarded after Grade 13, has normally been required for students entering university directly from secondary school. The OSSHGD will continue to be available until August 1990.
2. The new Ontario Secondary School Diploma (OSSD), available since June 1986, replaces the OSSHGD for purposes of admission to university. During the transition period, June 1986 – August 1990, however, both diplomas are being accepted by Ontario universities in considering candidates for admission.
3. During the same period but possibly extending to 1991 and beyond, Ontario Academic Courses (OACs) are replacing Grade 13 courses. During this transition period the universities will regard OACs and Grade 13 courses as equivalent.
4. Accordingly, beginning with the admissions cycle for fall 1986, either the OSSHGD or the OSSD may be presented with any combination of Grade 13 courses and OACs. This provision will continue throughout the transition period, i.e., until both the OSSHGD and all Grade 13 courses have been phased out.
5. An overall average of 60% on six OACs and/or Grade 13 courses is normally the minimum required for consideration. Special requirements for particular programs will be determined by individual universities as at present. Students should be aware, however, that possession of the minimum requirements does not guarantee admission. Also, applicants with good standing are more readily accepted than students with a borderline standing and, for certain programs with limited enrolments, an average of 70 to 80% or more may be required.
6. The preceding information is directed at students entering university directly from Ontario secondary schools. Other applicants, including those who have been out of school for a time, will be considered by the universities on an individual basis, as at present.

**Course Prerequisites**

Specific Grade 13 or OAC subject requirements vary according to the university and area of study selected. These are listed for each university under the appropriate degree program but, as the admissions information has been confirmed only for the current year, students are advised to check with their guidance counsellors about any possible changes in subject requirements affecting the 1988-89 academic year.

**Course Listings**

All programs offered are listed under one of nine subject-area headings. For example, a Bachelor of Arts program in music would be listed under the Fine and Applied Arts heading, while a Bachelor of Arts program in business would be listed under the Social Sciences and Related Courses heading.

In the example given below, the Bachelor of Arts program in mathematics and the Bachelor of Science programs in computer science, mathematics, and physics are listed under the Mathematical and Physical Sciences heading. As a Bachelor of Arts program, mathematics is offered only at the four-year honours level; as a Bachelor of Science program, however, it is offered at both the three- and four-year levels. Computer science and physics, also offered as three-year and four-year level Bachelor of Science programs, are not available as Bachelor of Arts programs.

To be eligible for admission to the Bachelor of Arts program in mathematics, applicants must meet the university's general admission requirements and the requirements for a Bachelor of Arts program. For admission to Bachelor of Science programs, applicants must meet the university's general admission requirements as well as the requirements for a Bachelor of Science program.

**Mathematical and Physical Sciences**

**●Bachelor of Arts**

*Four-year honours*
Available in: mathematics.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**●Bachelor of Science**

*Three-year general/four-year honours*
Available in: computer science, mathematics, physics.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

## Early Acceptance

Early acceptance to university may be offered to students before the end of the school year on the basis of their interim Grades 12 and 13 marks, and on condition that they maintain their standing and complete their year successfully.

## Application to Enter an Ontario University

### *How to apply*

A student planning to enrol in any year at an Ontario university in 1988 will submit an application through the

Ontario Universities' Application Centre
P.O. Box 1328
Guelph, Ontario N1H 7P4
Telephone (519) 823-1940

The Centre receives and records applications and student responses to university offers of admission.

### *Secondary school applicants*

These applicants are currently enrolled in full-time Ontario Grade 13 programs or OSSD programs with six OACs in accredited secondary or private schools.

The Centre sends blank application forms (OUAC 101) and fee envelopes to each secondary and private school in Ontario.

Each applicant should:

1. complete the personal data on the form;
2. select and record up to three combinations of university and program;
3. give the completed form and the $11 Application Service Fee in the fee envelope to the school official.

School officials record Grades 12 and 13 or OAC course data on the application form, remove copy 2 for the school records, and send copy 1 to the Application Centre. The Centre acknowledges receipt of each application by forwarding an Acknowledgement/Amendment form (OUAC 107) to the appropriate secondary school.

The Centre also obtains the recommended interim Grade 13 or OAC marks direct from the secondary school concerned.

### *Other applicants*

These applicants (including adults) are not currently enrolled in Ontario secondary schools, but may be applicants who have previously obtained Grade 13, applicants from correspondence or night schools, or applicants from other provinces or countries.

Other applicants may obtain an application form (OUAC 105) from any university or from the Application Centre. Application forms should be completed and submitted to the Ontario Universities' Application Centre along with the Application Service Fee of $11. An applicant may, when applying, choose a maximum of three combinations of university and program. The Centre processes the application and forwards it to the appropriate universities. The applicant must arrange to have supporting academic documents forwarded directly to these universities, quoting the Applicant's Reference Number.

### *Amendment process*

If applicants receive refusals of admission from the universities they have selected, they may add new choices and have their applications forwarded by the Centre to the new universities for adjudication.

### *University decision concerning the applicant*

The university, when it makes an offer of admission to the applicant, includes a response document, which the applicant must complete and return to the Centre. The applicant cannot accept more than one offer of admission. The Centre then processes the response and notifies the one university of acceptance and the other universities of the refusal of their offers.

### *Overseas students*

Overseas students who wish to obtain an application form to attend an Ontario university should direct requests to the Ontario Universities' Application Centre, P.O. Box 1328, Guelph, Ontario, Canada N1H 7P4.

Specific inquiries regarding entrance requirements, courses, fees, residences, and other facilities should be directed to specific universities.

The Application Service Fee for overseas students is $16 in the form of an International Money Order. Cheques made on non-Canadian banks are not accepted. Should a student not send the fee along with the application form, the form will not be processed.

Overseas students should apply as early as possible. Application forms will not be sent to overseas applicants between July 1 and September 30. Therefore, it is recommended that application should be made as soon as possible after October 1 for entry into university during September of the following year.

Academic documents, quoting the Applicant's Reference Number, should be sent directly to the university, *not* to the Application Centre.

The Application Centre is involved only with the universities located in Ontario. Inquiries about programs in other provinces should be directed to the individual universities or to the appropriate Department of Education.

**Schedule of Important Dates**
**1987-88**

August 31, 1987
"Other" (OUAC 105) application forms distributed to universities.

October 12, 1987
Commence distribution of (OUAC 101) application material to secondary schools.

December 18, 1987
Date for receipt of (OUAC 101) application forms from the secondary schools.

January 4 to February 12, 1988
Distribution of (OUAC 107) Acknowledgement/Amendment forms to secondary schools will begin as applications are processed.

February 15, 1988
Commence distribution of (OUAC 102) Grades for Early Admission forms to secondary schools.

April 15, 1988
Date for receipt of (OUAC 102) Grades for Early Admission forms from schools that *do not* have formal examinations in April.

April 22, 1988
Date for receipt of (OUAC 102) Grades for Early Admission forms from schools that *do* have formal examinations in April.

June 10, 1988
The earliest date by which the candidate may receive offers of early admission, scholarships, and places in residence.

June 24, 1988
Earliest date that universities may require a response to an offer of early admission.

### Preliminary Year and Admission from Grade 12

(Procedure is the same as described for full-time Ontario Grade 13 or OSSD students.)
Some universities offer a preliminary of qualifying year in lieu of Grade 13 for highly qualified Grade 12 students or students with sufficient credits towards their OSSD. The University of Windsor and Brescia College (an affiliate of Western) both offer a preliminary year. Carleton offers a qualifying university year in the Bachelor of Arts, Bachelor of Science, and Bachelor of Engineering programs. The University of Ottawa offers a pre-university* year only in the science and engineering faculty. Grade 12 students who achieve a minimum overall average of 85% on their final marks are eligible to apply to the first year of Ottawa's Faculty of Administration, Faculty of Arts, and Faculty of Social Sciences. A similar program of admission from Grade 12 to the first year of a degree program is offered at Lakehead, Laurentian, and McMaster. Guelph and York admit a number of Grade 13 students from semestered secondary schools directly into the first semester of some degree programs in January; Lakehead does so in February.

### Mature or Non-Matriculant Students

The admission requirements for mature or non-matriculant students vary. Most universities impose an age minimum of 21 years. Some universities require students to have been away from formal education for a period of time, and some prescribe pre-university course work or special admission tests. In general, mature applicants are expected to have at least adequate standing in the academic work they have undertaken previously and to be able to demonstrate that they have the aptitude for work at the university level. At many universities, places in full-time programs are filled by early July; therefore, students who are interested in full-time study and are planning to apply as mature or non-matriculant applicants should apply early.

### Graduate, Extension, and Summer Programs

*Horizons* does not include information on the variety of graduate, extension, and summer programs offered at the university level. Graduate programs normally require honours standing in a four-year undergraduate program as a prerequisite. In general, admission requirements for part-time, extension, and summer programs leading to degrees or diplomas are the same as for full-time degree programs. Non-credit courses for students not working toward a degree are also available. For further information, check with the admissions office, the extension department, or the graduate school of the university concerned.

### Secondary School Liaison and University Information Programs

During the academic year, representatives from each of the 15 universities in Ontario, Ryerson Polytechnical Institute, and the Royal Military College visit over 100 secondary schools across Ontario to take part in university information sessions for students, parents, and guidance counsellors, as arranged by local and county boards of education. The purpose of these programs is to provide firsthand information about university admission requirements, programs of study, campus life, facilities, campus tours, and scholarships. The names and addresses of Secondary School Liaison Officers are given in the university sections of this publication. Inquiries are welcome.

**Occupational Health and Safety**

Occupational Health and Safety Resource Centres are operated at Queen's University, Lakehead University, University of Waterloo, University of Western Ontario, and the Ontario Ministry of Labour.

# Programs available at Ontario universities and Ryerson Polytechnical Institute.

**Note:**
The following chart is a listing of programs offered at Ontario's 16 universities and Ryerson Polytechnical Institute. *This is not a comprehensive list* . For information on special programs see the individual entries on pages 95-148.
For information about programs offered at the Ontario College of Art see page 157.

**Codes:**
- ● = undergraduate degree program
- + = undergraduate diploma program
- ■ = undergraduate degree and diploma programs
- □ = undergraduate and graduate programs
- G = graduate study only
- M = minor specialization only
- * = check with university for details

| | Institutions | Brock | Carleton | Guelph | Lakehead | Laurentian | McMaster | Ottawa | Queen's | Royal Military College | Ryerson | Toronto | Trent | Waterloo | Western | Wilfrid Laurier | Windsor | York |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40. Agricultural and Biological Sciences** | **40.00 Agriculture** | | | | | | | | | | | | | | | | | |
| | 40.01 Agricultural Biology, Business, Mechanization | | | □ | | | | | | | | | | | | | | |
| | 40.02 Agriculture | | | □ | | | | | | | | | | | | | | |
| | 40.03 Animal and Poultry Science | | | □ | | | | | | | | | | | | | | |
| | 40.04 Crop Science | | | □ | | | | | | | | | | | | | | |
| | 40.05 Dairy Science and Technology | | | ● | | | | | | | | | | | | | | |
| | 40.06 Entomology — Apiculture | | | ● | | | | | | | | | | | | | | |
| | 40.07 Horticulture | | | □ | | | | | | | | | | | | | | |
| | 40.08 Plant Protection | | | ● | | | | | | | | | | | | | | |
| | 40.09 Soil Science | | | □ | | | | | | | | | | | | | | |
| | **41.00 Biology** | | | | | | | | | | | | | | | | | |
| | 41.01 Biochemistry, Clinical Biochemistry | □ | ● | □ | | ● | □ | □ | □ | | | □ | ● | □ | □ | | ● | M |
| | 41.02 Biology, Biological Sciences | □ | □ | □ | □ | □ | □ | □ | □ | | | ● | □ | □ | ● | ● | □ | □ |
| | 41.03 Biophysics | ● | | □ | | | G | | | | | □ | | M | □ | | | |
| | 41.04 Biotechnology | | ● | M | | | ● | | * | | | | | M | | | ● | M |
| | 41.05 Biotechnology and Genetic Engineering | | | | | | ● | | * | | | | | | | | | |
| | 41.06 Botany (Plant Sciences) | □ | □ | □ | | □ | | | * | | | □ | ● | M | □ | | M | M |
| | 41.07 Ecology and Evolution | M | | ● | | | | * | G | | | | | | ● | | | M |
| | 41.08 Genetics | M | | □ | | | * | | * | | | □ | | | ● | | | M |
| | 41.09 Molecular Biology and Biotechnology | | □ | | | | ● | | G | | | | | G | | | | |
| | 41.10 Virology | | | | | | G | | | | | | | | | | | |
| | 41.11 Zoology | □ | □ | □ | | □ | | | * | | | □ | ● | M | □ | | M | M |
| | **42.00 Biological Sciences: Other** | | | | | | | | | | | | | | | | | |
| | 42.01 Fish and Wildlife Biology | | | □ | | | | | * | | | | | | | | | |
| | 42.02 Fisheries Biology | | | ● | | | | | | | | | | | | | | |
| | 42.03 Human Biology | | | □ | | | * | | * | | | ● | | | | | | |
| | 42.04 Marine Biology, Sciences | | | □ | | | | | * | | | | | | | | | |
| | 42.05 Microbiology, Immunology | M | ● | □ | ● | | | G | G | | | □ | | M | □ | | | |
| | 42.06 Nutrition and Food Sciences | | | □ | | | | ● | | | ● | □ | | | ● | | | |
| | 42.07 Toxicology | | | ● | | | | | G | | | □ | | | ● | | | |
| | 42.08 Veterinary Medicine | | | □ | | | | | | | | | | | | | | |
| | 42.09 Wildlife Biology | | | ● | | | | | * | | | | | | | | | |
| **43. Education/Physical Education/Recreation** | **43.00 Education** | | | | | | | | | | | | | | | | | |
| | 43.01 Art Education | | | | * | | | | * | | | ● | * | | | | * | ● |
| | 43.02 Arts and Science in Teaching | | | | | | G | | | | | | | | | | | |
| | 43.03 Early Childhood Education | ● | | M | | | | | | | ● | | | ■ | | | * | ■ |
| | 43.04 Education | □ | | | □ | ● | G | □ | □ | | | □ | ● | | □ | | □ | □ |
| | 43.05 Elementary Education | □ | | | □ | ■ | | ● | * | | | ● | ● | | ● | | ● | ■ |
| | 43.06 Secondary Education | □ | | | □ | | | ● | * | | | ● | ● | * | ● | | ● | ■ |
| | 43.07 Special Education, Exceptional Children | M | | M | M | | | * | * | | | □ | * | | * | | G | □ |
| | **44.00 Physical Education and Recreation** | | | | | | | | | | | | | | | | | |
| | 44.01 Health Studies, Health Care Practice | | | | ● | ● | G | | * | | | ● | | □ | | | | |
| | 44.02 Kinesiology, Human Kinetics, Kinanthropology | | | □ | | ● | G | □ | □ | | | | | □ | | | □ | M |
| | 44.03 Physical Education, Physical and Health Education | ● | | | □ | ● | □ | □ | □ | | | ● | | | □ | ● | | □ |
| | 44.04 Recreation | ● | | | ● | | | ● | | | | ● | | □ | | | | M |

**Note:**
The following chart is a listing of programs offered at Ontario's 16 universities and Ryerson Polytechnical Institute. *This is not a comprehensive list* . For information on special programs see the individual entries on pages 95-148.
For information about programs offered at the Ontario College of Art see page 157.

**Codes:**
● = undergraduate degree program
+ = undergraduate diploma program
■ = undergraduate degree and diploma programs
□ = undergraduate and graduate programs
G = graduate study only
M = minor specialization only
* = check with university for details

| | Institutions | Brock | Carleton | Guelph | Lakehead | Laurentian | McMaster | Ottawa | Queen's | Royal Military College | Ryerson | Toronto | Trent | Waterloo | Western | Wilfrid Laurier | Windsor | York |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **45. Engineering and Applied Sciences** | **45.00 Applied Sciences** | | | | | | | | | | | | | | | | | |
| | 45.01 Applied Geography | | | | | | * | | | | ● | | | | | | | |
| | 45.02 Applied Mathematics | | ● | □ | □ | | * | ● | ● | | | □ | | □ | □ | | M | ● |
| | 45.03 Applied Science | | | □ | * | | □ | | □ | ● | | □ | | | | | □ | |
| | 45.04 Architecture | | ● | | | | | | | | ● | □ | | ● | | | | |
| | 45.05 Earth Science | □ | | □ | | ● | | ● | | | | □ | | □ | | | | ● |
| | 45.06 Environmental Health | | | | | | | | | | ● | | | * | | | | |
| | 45.07 Forestry, Forest Technology | | | | □ | | | | | | | □ | | | | | | |
| | 45.08 Geological and Applied Earth Science | □ | | | | | | | □ | | | □ | | □ | | | □ | ● |
| | 45.09 Industrial Design | | ● | | | | | | | | | | | | | | | |
| | 45.10 Landscape Architecture | | | □ | | | | | | | + | ● | | | | | | |
| | **46.00 Engineering** | | | | | | | | | | | | | | | | | |
| | 46.01 Aeronautical Engineering | | G | | | | | | | | | | | | | | | |
| | 46.02 Aerospace Engineering | | | | | | | | | | ■ | □ | | | | | | |
| | 46.03 Agricultural Engineering | | | □ | | | | | | | | | | | | | | |
| | 46.04 Bioengineering | | | | | | G | | * | | | | | | | | | |
| | 46.05 Biological Engineering | | | □ | | | | | * | | | | | | | | | ● |
| | 46.06 Biomedical Engineering | | | | | | M | | G | | | G | | | | | | |
| | 46.07 Ceramic Engineering | | | | | | □ | | | | | G | | | | | | |
| | 46.08 Chemical Engineering | | | | ■ | * | □ | □ | □ | G | ■ | □ | | □ | □ | | □ | |
| | 46.09 Chemical Engineering, Nuclear Option | | | | | | | | | | | □ | | | | | | |
| | 46.10 Civil Engineering | | □ | | ■ | * | □ | □ | □ | □ | ■ | □ | | □ | □ | | □ | |
| | 46.11 Civil Engineering and Computer Systems | | | | | | ● | | | | | | | | | | | |
| | 46.12 Computer Engineering | | □ | | | | □ | M | * | □ | | □ | | □ | | | | |
| | 46.13 Electrical Engineering | | □ | | ■ | | □ | □ | □ | □ | ■ | □ | | □ | □ | | □ | |
| | 46.14 Engineering | | □ | □ | ■ | * | * | | □ | | | □ | | □ | G | | □ | |
| | 46.15 Engineering and Management | | | | | | ● | | * | | | | | □ | | | | |
| | 46.16 Engineering Chemistry | | | | | | | | ● | | | | | | | | | |
| | 46.17 Engineering Physics | | | | ■ | | □ | | ● | ● | | □ | | | | | | |
| | 46.18 Environmental Engineering | | | M | | | | | | | | G | | | | | | |
| | 46.19 Fuels and Materials Engineering | | G | | | | | | | ● | | □ | | | □ | | □ | |
| | 46.20 Geological Engineering | | | | | | | | ● | | | □ | | ● | | | □ | |
| | 46.21 Industrial Engineering | | | | | | | | | □ | ■ | □ | | | | | □ | |
| | 46.22 Management Engineering | | | | | | | ● | | | | □ | | □ | | | | |
| | 46.23 Manufacturing Engineering | | | | | | ● | | | | | G | | | | | | |
| | 46.24 Materials Engineering | | | | | | ● | | | | | | | | | | | |
| | 46.25 Mathematics and Engineering | | | | | | | | ● | | | | | | | | | |
| | 46.26 Mechanical Engineering | | □ | | ■ | * | □ | □ | □ | □ | ■ | □ | | □ | □ | | □ | |
| | 46.27 Metallurgical Engineering | | | | | ● | □ | | □ | | | □ | | | | | □ | |
| | 46.28 Mining Engineering | | | | | ● | | | □ | | | ● | | | | | | |
| | 46.29 Nuclear Engineering | | | | | | G | | | G | | □ | | | | | | |
| | 46.30 Occupational Health and Safety | | | | | | * | | | | | G | | | | | | |
| | 46.31 Survey Engineering | | | | | | | | | | ■ | | | | | | | |
| | 46.32 Systems Design Engineering | | □ | | | | * | | | | | □ | | □ | | | | |
| | 46.33 Water Resources Engineering | | | □ | | | | | | | | | | | | | | |
| **47. Fine and Applied Arts** | **47.00 Art, Fine Arts, Theatre** | | | | | | | | | | | | | | | | | |
| | 47.01 Art Conservation | | | | | | | | G | | | | | | | | | |
| | 47.02 Art, Fine Arts | ● | M | ● | ● | | ● | ● | ● | | | | M | ● | ● | ● | □ | □ |
| | 47.03 Art History | M | ● | M | * | | ● | ● | □ | | | □ | | ● | ● | | ● | □ |
| | 47.04 Arts Administration | M | | | | | | | | | | ● | | * | | | | G |

**Note:**
The following chart is a listing of programs offered at Ontario's 16 universities and Ryerson Polytechnical Institute. *This is not a comprehensive list* . For information on special programs see the individual entries on pages 95-148.
For information about programs offered at the Ontario College of Art see page 157.

**Codes:**
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- G = graduate study only
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| | Institutions | Brock | Carleton | Guelph | Lakehead | Laurentian | McMaster | Ottawa | Queen's | Royal Military College | Ryerson | Toronto | Trent | Waterloo | Western | Wilfrid Laurier | Windsor | York |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **47.00 Art, Fine Arts, Theatre continued** | | | | | | | | | | | | | | | | | |
| | 47.05 Dance | | | | * | | M | | | | + | | | ● | M | | * | □ |
| | 47.06 Drama, Dramatic Art | ● | | ● | * | | ● | | ● | | + | □ | M | ● | ● | M | ● | □ |
| | 47.07 Film, Cinema | ● | ● | | | M | * | | ● | | | ● | M | ● | ● | ● | □ | □ |
| | 47.08 Graphic Communications Management | | | | | | | | | | ● | | | | | | | |
| | 47.09 Interior Design | | | | | | | | | | ● | | | | | | | |
| | 47.10 Medical Illustration | | | | | | | | | | | ● | | | | | | |
| | 47.11 Museum Studies | | | | | | | | | | | G | | | | | | |
| | 47.12 Painting | | | | * | | | | | | | | | | | | □ | □ |
| | 47.13 Photographic Arts | | | | | | | | | | ● | | | | | | | □ |
| | 47.14 Radio & Television Arts, Communication Studies | | | | | | | | | | ● | | | | | | □ | * |
| | 47.15 Studio Art | M | | M | | | ● | ● | ● | | | ● | M | ● | ● | | □ | □ |
| | 47.16 Theatre, Theatre Arts | ● | | | | ● | | ● | * | | | | M | ● | | | ● | □ |
| | 47.17 Theatre, Technical/Production | M | | | | | | | * | | + | | | ● | | | | □ |
| | **48.00 Music** | | | | | | | | | | | | | | | | | |
| | 48.01 Music | ● | ■ | ● | ● | ● | ● | ● | ● | | | □ | | ● | □ | ■ | ● | □ |
| | 48.02 Music Criticism | | | | | | G | | | | | | | | | | | |
| | 48.03 Music Education | ● | | | | | ● | ● | * | | | □ | | | □ | ● | ● | ● |
| | 48.04 Music History, Literature | ● | ● | | | | ● | ● | ● | | | ● | | | □ | ● | ● | ● |
| | 48.05 Music Performance, Applied Music | ● | | ● | * | | ● | ● | ● | | | □ | | | □ | ● | ● | ● |
| | 48.06 Music Theory, Composition | ● | ● | | * | | ● | ● | ● | | | □ | | | □ | ● | ● | ● |
| | 48.07 Music Therapy | | | | | | | | | | | | | | | ● | | |
| **49. General Arts and Science** | **49.00 General Arts and Science** | | | | | | | | | | | | | | | | | |
| | 49.01 Arts & Science (Special Program) | | | | | | ● | | | | | | | | | | | |
| | 49.02 General Arts | ● | ● | ● | ● | | ● | ● | ● | | + | | ● | ● | ● | ● | | □ |
| | 49.03 General Arts and Science | ● | | | | | | | | | | | ● | | | | | |
| | 49.04 General Science | ● | ● | ● | ● | ● | ● | ● | ● | | | | ● | ● | ● | ● | | □ |
| **50. Health Professions and Medical Sciences** | **50.00 Health Professions and Medical Sciences** | | | | | | | | | | | | | | | | | |
| | 50.01 Anatomy | | | | | | | G | G | | | G | | * | G | | | |
| | 50.02 Blood & Cardiovascular Program | | | | | | G | | | | | | | | | | | |
| | 50.03 Communicative Disorders | | | | | | | | | | | G | | | □ | | | |
| | 50.04 Dental Surgery | | | | | | | | | | | □ | | | | | | |
| | 50.05 Dentistry | | | | | | | | | | | □ | | | □ | | | |
| | 50.06 Design, Measurement and Evaluation | | | | | | G | | | | | | | | | | | |
| | 50.07 Growth and Development | | | | | | G | | | | | | | | | | | |
| | 50.08 Health Administration | | | | | | * | G | | | | G | | * | | | | |
| | 50.09 Health Care Practice | | | | | | G | | | | | | | | | | | |
| | 50.10 Medical Biophysics | | | | | | | | * | | | G | | | | | | |
| | 50.11 Medicine | | | | | | □ | □ | □ | | | □ | | | □ | | | |
| | 50.12 Molecular Genetics, Biology | | | □ | | | □ | | * | | | ● | | | | | | |
| | 50.13 Neurosciences | | | | | | G | | | | | | | | | | | |
| | 50.14 Nursing | | | | ● | ● | ● | ● | ● | | ■ | □ | | | □ | | ■ | |
| | 50.15 Nursing Education | | | | | | | | | | | | | | G | | | |
| | 50.16 Occupational Therapy, Physical Therapy, Physiotherapy | | | | | | ● | ● | ● | | | ● | | | □ | | | |
| | 50.17 Optometry | | | | | | | | | | | | | □ | | | | |
| | 50.18 Pathology | | | | | | | | G | | | G | | | | | | |
| | 50.19 Pharmacology | | | | | | | G | * | | | □ | | | □ | | | |
| | 50.20 Pharmacy | | | | | | | | | | | □ | | | | | | |
| | 50.21 Physiology | | □ | | | | | G | G | | | □ | | G | □ | | | |
| | 50.22 Speech Pathology | | | | | | | | | | | G | | | | | | |

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**Codes:**
● = undergraduate degree program
+ = undergraduate diploma program
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| | Institutions | Brock | Carleton | Guelph | Lakehead | Laurentian | McMaster | Ottawa | Queen's | Royal Military College | Ryerson | Toronto | Trent | Waterloo | Western | Wilfrid Laurier | Windsor | York |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **51. Humanities and Related Courses** | **51.00 Languages and Literature** | | | | | | | | | | | | | | | | | |
| | 51.01 Chinese | | | | | | * | | | | | □ | | | | | M | M |
| | 51.02 Classics | ● | □ | ● | M | M | □ | □ | □ | | | □ | ● | ● | □ | ● | ● | ● |
| | 51.03 Communication Arts | | * | | | | | ● | ● | | | | | | | ● | □ | |
| | 51.04 Comparative Literature | | G | | | | M | | | | | G | M | | | | ● | |
| | 51.05 Comparative Literature & Literary Theory | | | | | | ● | | | | | | | | | | | |
| | 51.06 English Language and Literature | ● | □ | □ | □ | ● | □ | □ | □ | □ | | □ | ● | □ | □ | ● | □ | □ |
| | 51.07 Eighteenth Century Studies | | | | | | * | | | | | | | | | | | |
| | 51.08 French Language and Literature | ● | □ | ● | ● | □ | □ | □ | □ | | | □ | ● | □ | □ | ● | □ | ● |
| | 51.09 German Language and Literature | ● | □ | ● | M | ● | □ | ● | □ | | | □ | ● | □ | □ | ● | ● | ● |
| | 51.10 Greek Language and Literature | ● | □ | ● | M | M | □ | * | ● | | | □ | ● | ● | □ | ● | ● | ● |
| | 51.11 Hebrew | | | | | | * | | | | | □ | | | | | | M |
| | 51.12 Italian Language and Literature | ● | ● | ● | M | ● | ● | ● | ● | | | □ | | M | ● | | ● | ● |
| | 51.13 Japanese | | | | | | * | | | | | | | | | | | |
| | 51.14 Journalism | | □ | | | | | | | | ● | | | | G | | * | |
| | 51.15 Latin Language and Literature | ● | □ | ● | M | M | □ | * | ● | | | □ | ● | ● | □ | ● | ● | ● |
| | 51.16 Linguistics, Applied Linguistics | M | ● | ● | M | ● | M | □ | ● | | | □ | M | | ● | | ● | ● |
| | 51.17 Mass Communications | ● | ● | | | | | | * | | | | | | | | | ● |
| | 51.18 Modern Languages and Linguistics | | | | | | ● | | | | | | | | | | | |
| | 51.19 Organizational Communications | ● | | | | | | | * | | | | | | | | + | |
| | 51.20 Polish Language and Literature | | | | | | * | | | | | ● | | | | | | M |
| | 51.21 Portuguese Language and Literature | | | | | | | | | | | □ | | | | | | * |
| | 51.22 Renaissance Literature | | | | | | | | | | | ● | | | | | | |
| | 51.23 Roman Studies | | | | | | G | | * | | | ● | | | | | | |
| | 51.24 Russian Language and Literature | ● | ● | | M | ● | ● | □ | ● | | | □ | | □ | ● | | ● | ● |
| | 51.25 Sanskrit | | | | | | * | | | | | | | | | | | |
| | 51.26 Serbo-Croatian Language and Literature | | | | | | * | | | | | ● | | | | | | |
| | 51.27 Slavic Language and Literature | ● | | | | | * | | | | | □ | | ● | | | | |
| | 51.28 Spanish Language and Literature | ● | □ | ● | M | ● | ● | ● | □ | | | □ | ● | ● | □ | ● | ● | ● |
| | 51.29 Translation, Interpretation | M | | | | ● | | □ | ● | | | G | | | | | | ● |
| | 51.30 Ukrainian Language and Literature | | | | | | * | | | | | ● | | | | | | M |
| | **52.00 Philosophy and Religious Studies** | | | | | | | | | | | | | | | | | |
| | 52.01 Philosophy | □ | □ | □ | ● | ● | □ | □ | □ | | | □ | ● | □ | □ | ● | □ | □ |
| | 52.02 Religion, Religious Studies | ● | □ | | M | ● | □ | □ | ● | | | □ | * | ● | ● | □ | □ | ● |
| | 52.03 Theology, Theological Studies | G | | | | | G | □ | □ | | | □ | | * | G | G | | |
| | **53.00 Independent Studies** | | | | | | | | | | | | | | | | | |
| | 53.01 Independent Studies, Experimental Programs | | ● | | | | | | | | | ● | ● | ● | | | | ● |
| **54. Mathematical and Physical Sciences** | **54.00 Mathematics** | | | | | | | | | | | | | | | | | |
| | 54.01 Actuarial Science | | | | ● | | | | * | | | ● | | □ | ● | | * | * |
| | 54.02 Algebra | | | | | | | | □ | | | | | | | | | |
| | 54.03 Analysis | | | | | | | | □ | | | | | | | | | |
| | 54.04 Combinatorics and Optimization | | | | | | * | * | □ | | | | | □ | | | | |
| | 54.05 Computation | | | | | | G | | | | | | | | | | | |
| | 54.06 Computer Science, Computer Studies | ● | □ | ● | □ | ● | □ | ● | □ | G | ● | □ | ● | □ | □ | ● | ● | ● |
| | 54.07 Computer Science & Psychology | | | | | | ● | | | | | | | | | | | |
| | 54.08 Geometry | | | | | | | | □ | | | | | | | | | |
| | 54.09 Logic | | | | | | * | | * | | | ● | | | | | | |
| | 54.10 Mathematics | ● | □ | □ | □ | ● | □ | □ | □ | G | | □ | ● | □ | □ | ● | □ | □ |
| | 54.11 Mathematics and Physics | ● | ● | □ | ● | | ● | | ● | ● | | ● | ● | ● | ● | | ● | ● |
| | 54.12 Mathematics/CA/CMA/RIA/Business Administration Options | | | | | | | | | | | | | ● | | | | * |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **54.00 Mathematical and Physical Sciences continued** | | | | | | | | | | | | | | | | | |
| | 54.13 Mathematics/Teaching Option | | | | | | | | ● | | | G | | ● | ● | | | ● |
| | 54.14 Operations Research | | ● | | | | * | ● | * | | | | | □ | | | | + |
| | 54.15 Probability | | | | | | | | ● | | | | | | | | | |
| | 54.16 Pure Mathematics | ● | ● | □ | | | □ | ● | □ | | | □ | ● | □ | ● | | * | □ |
| | 54.17 Statistics | | □ | □ | | | □ | ● | □ | | | □ | M | □ | □ | M | * | M |
| | **55.00 Physics** | | | | | | | | | | | | | | | | | |
| | 55.01 Astronomy | M | | | | M | M | | * | | | □ | | * | □ | | | G |
| | 55.02 Chemical Physics | | | □ | | | G | | ● | | | □ | ● | □ | □ | | | G |
| | 55.03 Geophysics, Space Physics, Astrophysics | | | | | | * | | ● | | | □ | | ● | □ | | | G |
| | 55.04 Mathematical Physics | | ● | □ | ● | | M | ● | ● | | | □ | | M | | | | M |
| | 55.05 Physics | □ | □ | □ | □ | □ | □ | □ | □ | G | | □ | □ | □ | □ | ● | □ | □ |
| | 55.06 Physics (Health and Radiation) | | | | | | □ | | | | | | | | | | | |
| | 55.07 Theoretical Physics and Applied Mathematics | | | | | | ● | | | | | | | * | | | | |
| | **56.00 Physical Sciences: Other** | | | | | | | | | | | | | | | | | |
| | 56.01 Chemistry | □ | □ | □ | □ | □ | □ | □ | □ | G | | □ | □ | □ | □ | ● | □ | □ |
| | 56.02 Climatology | | | | | | * | | | | | | | * | | | | |
| | 56.03 Fuel and Energy Science | | | | M | | | | | | | | | | | | | |
| | 56.04 Geology | □ | □ | M | □ | □ | □ | □ | □ | | | □ | | □ | □ | | □ | M |
| | 56.05 Laboratory Science | | | | | | | | | | ■ | | | | | | | |
| | 56.06 Materials Science/Materials Engineering | | G | | | | □ | | | G | | □ | | | □ | | □ | |
| | 56.07 Metallurgy | | | | | | □ | | | | | □ | | | | | | |
| | 56.08 Survey Science | | | | | | | | | | ■ | ● | | | | | | |
| **57. Social Sciences and Related Courses** | **57.00 Business, Commerce, Economics** | | | | | | | | | | | | | | | | | |
| | 57.01 Accounting, Accountancy | ● | M | | ● | | M | ● | * | | | | M | □ | | ● | □ | □ |
| | 57.02 Administration, Administrative Studies | ● | | | ● | | M | □ | * | | | ● | ● | ● | ● | ● | □ | □ |
| | 57.03 Administration, Geriatric Care Facilities | | | * | | | * | | | | | | | | | | | |
| | 57.04 Administrative and Office Management Studies | | | | | | * | | | | ■ | | | | ● | | | |
| | 57.05 Business, Business Administration | ● | M | M | □ | G | □ | □ | □ | | ■ | G | ● | | □ | □ | □ | □ |
| | 57.06 Business Economics | ● | | ● | | | ● | | * | | | | | | G | | ● | □ |
| | 57.07 Commerce | | ● | ● | ● | ● | ● | ● | ● | ● | | ● | | | | | □ | M |
| | 57.08 Consumer Studies | | | □ | | | | | | | | | | | | | | |
| | 57.09 Economics | ● | □ | □ | □ | ● | □ | □ | □ | ● | | □ | ● | □ | □ | ● | □ | □ |
| | 57.10 Engineering and Management | | | | | | ● | | * | ● | | | | G | | | | |
| | 57.11 Finance | ● | M | | | | M | M | * | | | ● | | | □ | ● | □ | □ |
| | 57.12 Hospitality & Tourism Management | | | | | | | | | | ● | | | | | | | |
| | 57.13 Hotel and Food Administration | | | ● | | | | | | | + | | | | | | | |
| | 57.14 Industrial, Labour Relations | M | M | | ● | | M | * | * | | | G | | | □ | | + | □ |
| | 57.15 International Business | | | | | | M | | | | | | | | | | | |
| | 57.16 Management, Management Sciences, Business Management | ● | □ | ● | | | G | □ | * | | ■ | G | * | G | □ | □ | □ | □ |
| | 57.17 Marketing | ● | M | | ● | | M | M | * | | | G | M | | G | ● | □ | □ |
| | 57.18 Native Management and Economic Development | | | | | | | | | | | | ■ | | | | | |
| | 57.19 Office and Administrative Studies | | | | | | | | | | ■ | | | | | | | |
| | 57.20 Personnel and Administrative Studies | ● | M | | ● | | M | | | | | + | | M | □ | | | |
| | 57.21 Public Administration | □ | □ | | | + | * | M | G | | ● | + | ● | ● | ■ | | ■ | □ |
| | 57.22 Resource Management | | | ● | | | | M | | | | G | | | | | ● | |
| | 57.23 Science & Business | | | | | | | | | | | | | ● | | | | |
| | **58.00 Canadian and International Studies** | | | | | | | | | | | | | | | | | |
| | 58.01 African Studies. | | M | | | | | | | | | ● | | | | | | ● |
| | 58.02 American Studies | | | | | | | | | | | ● | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **58.00 Canadian and International Studies continued** | | | | | | | | | | | | | | | | | |
| 58.03 Asian Studies | ● | M | | | | M | | | | | □ | | M | | | ● | ● |
| 58.04 Canadian Studies | ● | □ | ● | ● | ● | ● | ● | ● | | | ● | □ | M | M | ● | ● | ● |
| 58.05 Chinese Studies | | | | | | | | | | | □ | | | | | M | ● |
| 58.06 Classical Studies, Civilization | ● | ● | ● | | M | ● | □ | □ | | | □ | ● | ● | □ | ● | ● | ● |
| 58.07 Czech and Slovak Studies | | | | | | | | | | | ● | | | | | | |
| 58.08 Iberoamerican Studies | | | | | | | | | | | | | * | | | | |
| 58.09 Indian, Eskimo, Native Studies | | | | * | ● | | | | | | ● | □ | | M | | M | |
| 58.10 Hungarian Studies | | | | | | | | | | | ● | | | | | | |
| 58.11 Jewish Studies | | | | | | | | | | | ● | | | | | | * |
| 58.12 Latin-American, Caribbean Studies | | | | | | | | * | | | ● | | | | | ● | ● |
| 58.13 Middle and Near Eastern Studies | | | | | | | | | | | □ | | M | | | | |
| 58.14 Military and Strategic Studies | | | | | | | | | ● | | | | | | | | |
| 58.15 Peace Studies | | | | | | M | | | | | | | M | | | | |
| 58.16 Soviet, Russian Studies | ● | □ | | | | | □ | ● | | | □ | | ● | | | | |
| **59.00 Food Sciences** | | | | | | | | | | | | | | | | | |
| 59.01 Applied Human Nutrition | | | □ | | | | | | | | | | | | | | |
| 59.02 Dietetics | | | □ | | | | ● | | | | | | | ● | | | |
| 59.03 Food Science | | | □ | | | | | | | | | | | | | | |
| 59.04 Nutritional Sciences | | | □ | | | | | | | | □ | | | | | | |
| **60.00 History** | | | | | | | | | | | | | | | | | |
| 60.01 Ancient History, Civilization | ● | ● | | | | M | M | * | | | ● | ● | ● | | | | M |
| 60.02 Assyriology | | | | | | | | | | | ● | | | | | | |
| 60.03 Celtic Studies | | | | | | | | | | | ● | | | | | | |
| 60.04 Egyptology | | | | | | | | | | | ● | | | | | | |
| 60.05 History | ● | □ | □ | □ | □ | □ | □ | □ | □ | | □ | □ | □ | □ | □ | □ | □ |
| 60.06 Medieval, Renaissance Studies | ● | M | | | | | □ | ● | | | □ | * | ● | G | | | M |
| 60.07 War Studies | | | | | | | | | G | | | | M | | | | |
| **61.00 Home Economics** | | | | | | | | | | | | | | | | | |
| 61.01 Clothing and Textiles, Design, Fashion | | | M | | | | | | | ■ | | | | ● | | | |
| 61.02 Consumer Studies | | | | | | | | | | ● | | | | | | | |
| 61.03 Family Studies, Family Science | | | | | | | | | | ● | | | | | | | |
| 61.04 Home Economics | | | | | | | | | | | | | | ● | | ● | |
| **62.00 Political Science** | | | | | | | | | | | | | | | | | |
| 62.01 Canadian Politics | □ | * | M | * | | M | M | * | | | | * | * | G | | | M |
| 62.02 International Affairs, Relations, Studies | □ | G | M | * | | M | M | * | | | □ | * | * | G | | ● | ● |
| 62.03 International Development | | | ● | | | | | G | | | ● | | | | | | |
| 62.04 Political and Economic Science | | | M | | | | | * | □ | | | | ● | | | | * |
| 62.05 Political Science, Politics | □ | □ | □ | ● | ● | □ | □ | □ | ● | | □ | ● | □ | □ | □ | □ | □ |
| **63.00 Regional Studies** | | | | | | | | | | | | | | | | | |
| 63.01 Community, Urban, Regional Planning | ● | | G | | | * | | G | | ● | G | | □ | □ | | | G |
| 63.02 Environmental Studies | ● | M | □ | | | G | | * | | | □ | □ | ● | □ | | | G |
| 63.03 Freshwater Science, Watershed Ecosystems | | | | | | | | | | | | G | G | | | | |
| 63.04 Geography | ● | □ | □ | ● | ● | □ | □ | □ | | ● | □ | □ | □ | □ | □ | □ | □ |
| 63.05 Municipal Administration | | | | | | * | | G | | | | | | | | + | |
| 63.06 Northern Studies | | | | | | M | | | | | | | | | | | |
| 63.07 Resources Conservation | | | ● | | | | | | | | G | | * | ● | | | G |
| 63.08 Social Demography | | | | | | | | * | | | | | * | G | | | |
| 63.09 Urban Studies, Urbanism/Urban Development | ● | M | ● | | | G | | G | | | □ | * | □ | ● | ● | ● | □ |

**Note:**
The following chart is a listing of programs offered at Ontario's 16 universities and Ryerson Polytechnical Institute. *This is not a comprehensive list* . For information on special programs see the individual entries on pages 95-148.
For information about programs offered at the Ontario College of Art see page 157.

**Codes:**
- ● = undergraduate degree program
- + = undergraduate diploma program
- ■ = undergraduate degree and diploma programs
- □ = undergraduate-and graduate programs
- G = graduate study only
- M = minor specialization only
- * = check with university for details

| Institutions | Brock | Carleton | Guelph | Lakehead | Laurentian | McMaster | Ottawa | Queen's | Royal Military College | Ryerson | Toronto | Trent | Waterloo | Western | Wilfrid Laurier | Windsor | York |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **64.00 Social Sciences: Other** | | | | | | | | | | | | | | | | | |
| 64.01 Anthropology | | □ | ● | ● | ● | □ | * | * | | | □ | □ | ● | □ | ● | ● | □ |
| 64.02 Archaeology | ● | | | * | | M | M | * | | | □ | ● | | M | ● | | |
| 64.03 Cognitive Science | | | | | | | | ● | | | | | | | | | |
| 64.04 Communication, Culture and Society | | | | | | | | ● | | | ● | | | | | | |
| 64.05 Criminology | | M | | | | | □ | * | | | □ | | | | | + | |
| 64.06 Family Studies, Family Science | | | □ | | | | | | | | | | | | | | |
| 64.07 Gerontology | | | M | | | ● | | | | | G | | MG | | | | |
| 64.08 Labour Studies | M | M | | | | ● | | | | | ● | | | | | + | |
| 64.09 Law | | * | | | | | □ | □ | | | □ | | | ● | | ● | □ |
| 64.10 Law and Society | | | | | | | | | | | | | | | | | ● |
| 64.11 Legal Studies | | | | | | | | | | | | | M | | | | |
| 64.12 Library Science | | | | + | | | | | | | G | | | G | | | |
| 64.13 Medicine, Morality and Law | | | | | | | | | | | ● | | | | | | |
| 64.14 Organization and Career Development | | | | | | | | | | | | | | | | + | |
| 64.15 Psychology | ● | □ | □ | □ | ● | □ | □ | □ | | | □ | ● | □ | □ | □ | □ | □ |
| 64.16 Social Welfare | | | | | ● | G | | | | | | | | | M | + | |
| 64.17 Social Work | | G | | □ | ● | ● | | | | ■ | G | | ● | ● | G | □ | ● |
| 64.18 Society, Technology and Values | | | | | | | | | | | | | M | | | | |
| 64.19 Sociology | ● | □ | □ | □ | ● | □ | □ | □ | | | □ | ● | □ | □ | ● | □ | □ |
| 64.20 Women's Studies | M | M | ● | | M | * | ● | | | | ● | | M | | M | + | ● |

# How to use this directory

To find a subject in the chart:

(1) locate the desired program name in the index;
(2) note the code number that follows this name; and
(3) turn back to the appropriate numerically coded listing in the chart.

For example, "Systems Design" and a cross-reference, *"Design, Systems"* are listed alphabetically in the index, each with the code number "46.32". This code number can be found in numerical sequence in the chart, where it will be seen that "Systems Design" is offered at four of Ontario's universities.

Accounting, Accountancy 57.01
Actuarial Science 54.01
Administration, Administrative Studies 57.02
Administration, Business 57.04
*Administration, Geriatric Care 57.03*
*Administration, Health 50.08*
*Administration, Hotel and Food 57.13*
*Administration, Municipal 63.05*
*Administration, Public 57.21*
Administrative and Office Management Studies 57.04
*Administrative and Personnel Studies 57.20*
*Administrative and Office Studies 57.19*
Aeronautical Engineering 46.01
Aerospace Engineering 46.02
African Studies 58.01
**Agricultural and Biological Sciences 40**
Agricultural Biology, Business, Mechanization 40.01
Agricultural Engineering 46.03
**Agriculture 40.00**
Agriculture 40.02
Algebra 54.02
American Studies 58.02
Analysis 54.03
Anatomy 50.01
Ancient History, Civilization 60.01
Animal and Poultry Science 40.03
Anthropology 64.01
*Apiculture 40.06*
Applied Geography 45.01
Applied Human Nutrition 59.01
*Applied Linguistics, Linguistics 51.16*
Applied Mathematics 45.02
*Applied Mathematics, Theoretical Physics and 55.07*
Applied Science 45.03
**Applied Sciences 45.00**
Archaeology 64.02
Architecture 45.04
*Architecture, Landscape 45.10*
Art Conservation 47.01
*Art (Dramatic), Drama 47.05*
Art Education 43.01
Art, Fine Arts 47.02
**Art, Fine Arts, Theatre 47.00**
Art History 47.03
*Art, Studio 47.14*
*Arts, Theatre 47.10*
*Arts Administration 47.04*
*Arts and Science, General 49.03*
Arts and Science (Special Program) 49.01
Arts and Science in Teaching 43.02
*Arts, General 49.02*
*Arts, Photographic 47.12*
*Arts, Radio and Television 47.13*
*Arts, Theatre 47.15*
Asian Studies 58.03
Assyriology 60.02
Astronomy 55.01
*Astrophysics, Geophysics, Space Physics 55.03*
Biochemistry, Clinical Biochemistry 41.01
Bioengineering 46.04
Biological Engineering 46.05
*Biological Sciences, Biology 41.02*
**Biological Sciences: Other 42.00**
**Biology 41.00**
*Biology, Agricultural, Business, Mechanization 40.01*
Biology, Biological Sciences 41.02
*Biology, Fish and Wildlife 42.01*
*Biology, Fisheries 42.02*
*Biology, Human 42.03*
*Biology, Molecular Genetics 50.12*
*Biology and Biotechnology, Molecular 41.09*
*Biology, Marine/Marine Sciences 42.04*
*Biology, Wildlife 42.09*
Biomedical Engineering 46.06
Biophysics 41.03
*Biophysics, Medical 50.10*
Biotechnology 41.04
Biotechnology and Genetic Engineering 41.05
*Biotechnology, Molecular 41.09*
Blood and Cardiovascular 50.02
Botany (Plant Sciences) 41.06
*Business Administration Option/Mathematics 54.12*
*Business, Agricultural, Biology, Mechanization 40.01*
Business, Business Administration 57.04
**Business, Commerce, Economics 57.00**
Business Economics 57.06
*Business, International 57.15*
*Business Management, Management, Management Sciences 57.16*
*Business, Science and 57.23*
*CA Option/Mathematics 54.12*
**Canadian and International Studies 58.00**
Canadian Politics 62.01
Canadian Studies 58.04
*Cardiovascular, Blood and 50.02*
*Career and Organization Development 64.14*
*Caribbean, Latin-American Studies 58.12*
Celtic Studies 60.03
Ceramic Engineering 46.07
Chemical Engineering 46.08
Chemical Engineering, Nuclear Option 46.09
Chemical Physics 55.02
Chemistry 56.01
*Chemistry, Engineering 46.16*
Chinese 51.01
Chinese Studies 58.05
*Cinema, Film 47.07*
Civil Engineering 46.10, 46.11
*Civilization, Classical Studies 58.06*
*Civilization, Ancient 59.01*
Classical Studies, Civilization 58.06
Classics 51.02
Climatology 56.02
Clinical Biochemistry 41.01
Clothing and Textiles, Design, Fashion 61.01
Cognitive Science 64.03
Combinatorics and Optimization 54.04
Commerce 57.07
Communication Arts 51.03
Communication, Culture and Society 64.04
Communication Studies 47.14
*Communications, Mass 51.17*
Communicative Disorders 50.03
*Communications, Organizational 51.19*
Community, Urban, Regional Planning 63.01
Comparative Literature 51.04
Comparative Literature and Literary Theory 51.05
Computation 54.05
Computer Engineering 46.12
Computer Science 54.06
Computer Science and Psychology 54.07
Computer Studies 54.06
Computer Systems Engineering 46.11
*Conservation, Resources 63.07*
Consumer Studies 57.08, 61.02
Criminology 64.05
Crop Science 40.04
*Culture and Society, Communication 64.04*
Czech and Slovak Studies 58.07
Dairy Science and Technology 40.05
Dance 47.05
*Demography, Social 63.08*
Dental Surgery 50.04
Dentistry 50.05
*Design, Fashion, Clothing and Textiles 61.01*
*Design, Industrial 45.09*
*Design, Interior 47.09*
Design, Measurement and Evaluation 50.06
*Design, Systems 46.32*
*Development, Growth and 50.07*
*Development, International 62.03*
*Disorders, Communicative 50.03*
Dietetics 59.02
Drama, Dramatic Art 47.06
Early Childhood Education 43.03
*Earth, Applied and Geological Science 45.08*
Earth Science 45.05
*Eastern Studies, Near and Middle 58.08*
Ecology and Evolution 41.07
*Economic and Political Science 62.04*
*Economic Development, Native Management and 57.18*
Economics 57.09
*Economics, Business 57.06*
*Economics, Home 61.04*
*Ecosystems, Watershed 63.05*
**Education 43.00**
Education 43.04
*Education, Early Childhood 43.03*
*Education, Elementary 43.05*
*Education, Nursing 50.15*
**Education/Physical Education/Recreation 43**
*Education, Secondary 43.06*
*Education, Special; Exceptional Children 43.07*
Egyptology 60.04
Eighteenth Century Studies 51.07
Electrical Engineering 46.13
Elementary Education 43.05
*Energy and Fuel Science 56.03*
**Engineering 46.00**
Engineering 46.14
*Engineering, Aeronautical 46.01*
*Engineering, Aerospace 46.02*
*Engineering, Agricultural 46.03*
**Engineering and Applied Sciences 45**
Engineering & Management 46.15/57.10
*Engineering, Biological 46.05*
*Engineering, Biomedical 46.06*
*Engineering, Ceramic 46.07*
*Engineering, Chemical 46.08*
*Engineering, Chemical (Nuclear Option) 46.09*
Engineering Chemistry 46.16
*Engineering, Civil 46.10*
*Engineering, Civil and Computer Systems 46.11*
*Engineering, Computer 46.12*
*Engineering, Electrical 46.13*
*Engineering, Environmental 46.18*
*Engineering, Fuels and Materials 46.19*
*Engineering, Geological 46.20*
*Engineering, Industrial 46.21*
*Engineering, Management 46.22*
*Engineering and Management 46.15, 57.10*
*Engineering, Manufacturing 46.23*
*Engineering, Materials 46.19, 56.06, 46.24*
*Engineering, Mathematics and 46.25*
*Engineering, Mechanical 46.26*
*Engineering, Metallurgical 46.27*
*Engineering, Mining 46.28*
*Engineering, Nuclear 46.29*
Engineering Physics 46.17

*Engineering, Survey 46.31*
*Engineering, Systems Design 46.32*
*Engineering, Water Resources 46.33*
English Language and Literature 51.06
Entomology — Apiculture 40.06
Environmental Engineering 46.18
Environmental Health 45.06
Environmental Studies 63.02
*Eskimo, Indian, Native Studies 58.09*
*Evaluation, Design, Measurement and 50.06*
*Evolution and Ecology 41.07*
*Exceptional Children, Special Education 43.07*
*Experimental Programs, Independent Studies 53.01*
*Family Science, Family Studies 61.03, 64.06*
Family Studies, Family Science 61.03, 64.06
*Fashion, Design, Clothing and Textiles 61.01*
Film, Cinema 47.07
Finance 57.11
**Fine and Applied Arts 47**
Fish and Wildlife Biology 42.01
Fisheries, Biology 42.02
*Food, Hotel Administration 57.13*
**Food Sciences 59.00**
Food Science 59.03
*Food Sciences, Nutrition 42.06*
Forestry, Forest Technology 45.07
French Language and Literature 51.08
Freshwater Science, Watershed Ecosystems 63.03
Fuel and Energy Science 56.03
Fuels and Materials Engineering 46.19
General Arts 49.01
**General Arts and Science 49**
General Science 49.03
Genetic Engineering 41.05
Genetics 41.08
Genetics, Molecular 50.12
Geography 63.04
*Geography, Applied 45.01*
Geological and Applied Earth Science 45.08
Geological Engineering 46.20
Geology 56.04
Geometry 54.08
Geophysics, Space Physics, Astrophysics 55.03
German Language and Literature 51.09
*Geriatric Care, Administration 57.03*
Gerontology 64.07
Graphic Communications Management 47.08
Greek Language and Literature 51.10
Growth and Development 50.07
Health Administration 50.08
*Health and Physical Education, Physical Education 44.03*
*(Health and Radiation) Physics 55.06*
Health Care Practice 44.01, 50.09
*Health, Environmental 45.06*
*Health, Occupational 46.30*
Health Studies, Health Care Practice 44.01
**Health Professions and Medical Sciences 50, 50.00**
Hebrew 51.11
**History 60.00**
History 60.05
*History (Art) 47.03*
*History, Ancient 60.01*
Home Economics 60.05
**Home Economics 61.00**
Home Economics 61.04
Hospitality and Tourism Management 57.12
Horticulture 40.07
Hotel and Food Administration 57.13
Human Biology 42.03
*Human Kinetics 44.02*
*Human Nutrition, Applied 59.01*
**Humanities and Related Courses 51**
Hungarian Studies 58.10
Iberoamerican Studies 58.08
*Illustration, Medical 47.10*
*Immunology, Microbiology 42.05*
**Independent Studies 53.00**
Independent Studies, Experimental Programs 53.01
Indian, Eskimo, Native Studies 58.09
Industrial Design 45.09
Industrial Engineering 46.21
Industrial, Labour Relations 57.14
Interior Design 47.09
International Affairs, Relations, Studies 62.02
International Business 57.15
International Development 62.03
*Interpretation, Translation 51.29*
Italian Language and Literature 51.12
Japanese 51.13
Jewish Studies 58.11
Journalism 51.14
*Kinanthropology 44.02*
Kinesiology 44.02
Laboratory Science 56.05
*Labour, Industrial Relations 57.14*
Labour Studies 64.08
Landscape Architecture 45.10
**Languages and Literature 51.00**
Latin-American, Caribbean Studies 58.12
Latin Language and Literature 51.15
Law 64.09
*Law and Morality, Medicine 64.13*
Law and Society 64.10
Legal Studies 64.11
Library Science 64.12
Linguistics, Applied Linguistics 51.16
*Linguistics, Modern Languages and 51.18*
*Literary Theory, Comparative Literature 51.05*
*Literature and Languages 51.00*
*Literature, Comparative 51.04*
*Literature, Renaissance 51.22*
Logic 54.10
*Management and Engineering 46.15/57.10*
*Management, Business 57.13*
Management Engineering 46.22
*Management, Graphic Communications 47.08*
Management, Management Sciences, Business Management 57.16
*Management, Native, and Economic Development 57.16*
*Management, Resource 57.22*
Manufacturing Engineering 46.23
Marine Biology, Sciences 42.04
Marketing 57.17
Mass Communications 51.17
*Materials and Fuels Engineering 46.19*
*Materials Engineering 56.06, 46.24*
Materials Science 56.06
**Mathematical and Physical Sciences 54**
Mathematical Physics 55.04
**Mathematics 54.00**
Mathematics 54.10
Mathematics and Engineering 46.25
Mathematics and Physics 54.11
*Mathematics, Applied 45.02*
Mathematics/CA/RIA/Business Administration Option 54.12
*Mathematics, Pure 54.16*
Mathematics, Teaching Option 54.13
*Measurement and Evaluation, Design 50.06*
Mechanical Engineering 46.26
*Mechanization, Agricultural, Biology, Business 40.01*
Medical Biophysics 50.10
Medical Illustration 47.10
Medicine 50.11
Medicine, Morality and Law 64.13
Medieval, Renaissance Studies 60.06
Metallurgical Engineering 46.27
Metallurgy 56.07
Microbiology, Immunology 42.05
Middle and Near Eastern Studies 58.13
Military and Strategic Studies 58.14
Mining Engineering 46.28
Modern Languages and Linguistics 51.18
Molecular Biology and Biotechnology 41.09
Molecular Genetics, Biology 50.12
*Morality and Law, Medicine 64.13*
Municipal Administration 63.05
Museum Studies 47.11
**Music 48.00**
Music 48.01
Music Criticism 48.02
Music Education 48.03
Music History, Literature 48.04
Music Performance, Applied Music 48.05
Music Theory, Composition 48.06
Music Therapy 48.07
*Native, Indian, Eskimo Studies 58.09*
Native Management and Economic Development 57.18
*Near and Middle Eastern Studies 58.13*
Neurosciences 50.13
Northern Studies 63.06
Nuclear Engineering 46.29
*Nuclear Option, Chemical Engineering 46.08*
Nursing 50.14
Nursing Education 50.15
Nutrition and Food Sciences 42.06
*Nutrition, Applied Human 59.01*
Nutritional Sciences 59.04
Occupational Health and Safety 46.30
Occupational Therapy, Physical Therapy, Physiotherapy 50.16
Office and Administrative Studies 57.19
*Office Management Studies, Administrative and 57.04*
Operations Research 54.14
*Optimization and Combinatorics 54.04*
Optometry 50.17
Organization and Career Development 64.14
Organizational Communications 51.19
Painting 47.12
Pathology 50.18
*Pathology, Speech 50.22*
Peace Studies 58.15
Personnel and Administrative Studies 57.20
Pharmacology 50.19
Pharmacy 50.20
Philosophy 52.01
**Philosophy and Religious Studies 52.00**
Photographic Arts 47.13
**Physical Education and Recreation 44.00**
Physical Education, Physical and Health Education 44.03
**Physical Sciences: Other 56.00**
*Physical Therapy, Occupational Therapy, Physiotherapy 50.16*
**Physics 55.00**
Physics 55.05
*Physics and Mathematics 54.11*
*Physics, Chemical 55.02*
*Physics, Engineering 46.17*
Physics (Health and Radiation) 55.06
*Physics, Mathematical 55.04*
*Physics, Space; Geophysics, Astrophysics 55.03*
*Physics, Theoretical and Applied Mathematics 55.07*
Physiology 50.21
*Physiotherapy, Occupational Therapy, Physical Therapy 50.16*
*Planning, Community/Urban/Regional 62.01*
Plant Protection 40.08
*(Plant Sciences) Botany 41.06*
Polish Language and Literature 51.20
Political and Economic Science 62.04
**Political Science 62.00**
Political Science, Politics 62.05
*Politics, Canadian 62.01*
Portuguese Language and Literature 51.21
*Poultry, Science 40.03*
*Production, Theatre/Technical 47.17*

Psychology 64.15
*Psychology, Computer Science and 54.07*
Public Administration 57.21
Pure Mathematics 54.16
*(Radiation and Health) Physics 55.06*
Radio and Television Arts 47.14
Recreation 44.04
*Regional, Community, Urban Planning 63.01*
**Regional Studies 63.00**
Religion, Religious Studies 52.02
*Religious Studies, Religion 52.02*
Renaissance Literature 51.22
*Renaissance, Medieval Studies 60.06*
Resource Management 57.22
Resources Conservation 63.07
*RIA Option/Mathematics 54.12*
Roman Studies 51.23
Russian Language and Literature 51.24
*Russian, Soviet Studies 58.16*
*Safety, Occupational 46.30*
Sanskrit 51.25
*Science, Actuarial 54.01*
*Science and Arts, General 49.03*
*Science and Arts (Special) 49.01*
Science and Business 57.23
*Science, Animal/Poultry 40.03*
*Science, Applied 45.03*
*Science, Cognitive 64.03*
*Science, Computer 54.03*
*Science, Crop 40.04*
*Science, Dairy 40.05*
*Science, Earth 45.04*
*Science, Food 59.03*
*Science, Freshwater 63.03*
*Science, Fuel and Energy 56.03*
*Science, General 49.04*
*Science, Geological and Applied Earth 45.06*
*Science, Laboratory 56.05*
*Science, Materials 56.06*
*Science, Soil 40.09*
*Sciences, Biological/Biology 41.02*
*Sciences, Nutritional 59.04*
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Serbo-Croatian Language and Literature 51.26
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**Social Sciences and Related Courses 57**
**Social Sciences: Other 64.00**
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Social Work 64.17
*Society, Law and 64.10*
Society, Technology and Values 64.18
Sociology 64.19
Soil Science 40.09
Soviet, Russian Studies 58.16
Spanish Language and Literature 51.28
Special Education, Exceptional Children 43.07
Speech Pathology 50.22
Statistics 54.17
*Strategic and Military Studies 58.14*
Studio Art 47.15
Survey Engineering 46.31
Survey Science 56.08
Systems Design 46.32
*Teaching, Arts and Science in 43.02*
*Teaching Option/Mathematics 54.13*
*Technology and Values, Society 64.18*
*Technology, Forest 45.07*
Television Arts, Radio Arts 47.14
*Textiles and Clothing, Design, Fashion 61.01*
Theatre, Theatre Arts 47.16
Theatre, Technical/Production 47.17
Theology, Theological Studies 52.03
Theoretical Physics and Applied Mathematics 55.07
*Therapy, Music 48.07*
*Therapy, Occupational, Physical, Physiotherapy 50.11*
*Tourism Management, Hospitality and 57.12*
Toxicology 42.07
Translation, Interpretation 51.29
Ukrainian Language and Literature 51.30
*Urban, Community, Regional Planning 63.01*
Urban Studies, Urbanism, Urban Development 63.09
Veterinary Medicine 42.08
Virology 41.10
War Studies 60.07
Water Resources Engineering 46.33
Watershed Ecosystems, Freshwater Science 63.03
*Welfare, Social 64.16*
Wildlife Biology 42.09
*Wildlife and Fish Biology 42.01*
Women's Studies 64.20
Zoology 41.11

# Brock University

## St. Catharines

**President: Alan J. Earp**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 4 612 | 59 |
| Part-time | 3 522 | 598 |

**Faculties, Schools, and Institutes**
College of Education
Faculty of Arts and Sciences
Institute of Urban and Environmental Studies
School of Administrative Studies
School of Physical Education and Recreation
Concordia Lutheran Seminary (affiliated)

**General Admission Requirements**
The minimum requirement for admission to first-year studies is an OSSHGD/OSSD acceptable to the university, with six Grade 13/OAC credits and an overall average of 60%. However, higher averages are generally required, especially for selective programs. The 1986-87 requirement for non-limited enrolment arts and science programs at Brock was in the mid-60s.

One credit in mathematics is strongly recommended for students planning to major in administrative studies, economics, geography, psychology, sociology, or urban and environmental studies. An English credit is required for all programs except science programs, where it is recommended. Since admission requirements are subject to change, it is recommended that students contact the university with their specific inquiries.

**Proof of Proficiency in English**
Candidates whose mother language is not English are required to demonstrate proficiency in English, normally by presenting results showing a high level of success in the Test of English as a Foreign Language (TOEFL), from the Educational Testing Service, Princeton, New Jersey.

Normally, only those students with a score of 550 or better will be considered for admission. All students whose first language is not English must write an English placement test prior to registration. Students who do not achieve an acceptable score may be required to enrol in a special English program and take a reduced course load.

**Early Admission**
Students are encouraged to apply as soon as possible. Those with the appropriate average and subjects who graduate from a semestered secondary school in January will be offered early admission when their final marks are confirmed. All others will be offered early admission in mid-June, based on their interim marks. See the section *General Information on Ontario Universities* for details of application procedures and deadlines.

**Agricultural and Biological Sciences**

- **Bachelor of Science**

*Three-year general/four-year honours*
Available in: biochemistry, biological sciences.

*Admission requirements*
See *General Admission Requirements*. Also required are any two of biology, chemistry, and physics (English and mathematics strongly recommended).

**Education/Physical Education/Recreation**

- **Bachelor of Education**

The College of Education provides a one-year program leading to an Ontario Teacher's Certificate (OTC) and a Bachelor of Education (B.Ed.) degree. The basic admission requirement is an undergraduate degree from an approved university. Each student is assigned to a counselling group at the college, as well as to a teaching centre located in a regional school (Niagara/Hamilton area). Educational theory is applied through ten weeks of practice teaching at the primary/junior, junior/intermediate, or intermediate/senior grade levels.

Education courses are also available to undergraduate students. Consult the college calendar for details.

- **Bachelor of Arts/Bachelor of Education (Child Studies)**

For those who plan to teach at the nursery school, kindergarten, or primary/junior levels, Brock offers integrated academic and professional training in a concurrent B.A./B.Ed. degree program (limited enrolment). Child studies, a pass B.A. degree program, also focuses on the theoretical and the practical. Courses include child psychology and development, the family, schools and society, observational research, and the needs of the special child.

In co-operation with Niagara College of Applied Arts and Technology, Lambton College of Applied Arts and Technology, and Mohawk College of Applied Arts and Technology, a credit transfer formula has been devised. Students may now begin their studies at Niagara, Lambton, or Mohawk with the possibility of transferring credit from their college diploma program to Brock's degree program, or vice versa.

*Admission requirements*
A Grade 13/OAC English credit is compulsory. Enrolment is limited in the concurrent B.A./B.Ed. program; an overall average of at least 75% is required. Applicants may be required to attend an interview and provide a dossier for review. The B.A. program in child studies requires a minimum of 70% in six Grade 13/OAC credits.

- **Bachelor of Physical Education**

*Three-year general/four-year honours*
Brock's program is unique in that it emphasizes a movement approach to physical education, based primarily on Rudolph Laban's theories of movement. Students may select additional elective courses in the areas of adapted movement studies, coaching, child movement studies, health, recreation, and the psychology/sociology of sport.

- **Bachelor of Recreation and Leisure Studies**

*Three-year general/four-year honours*
This program of study is designed to meet the growing need for people to administer and develop programs in recreation and leisure. Students will be required to take core courses in the philosophy and principles of recreation, community recreation programming, administration and supervision, sociology, psychology, and interpersonal and organizational behaviour. All students take part in supervised practicum experiences and field work. Work terms are arranged in a number of areas, including such special populations as senior citizens, the young, and disabled persons.

*Admission requirement*
An acceptable Grade 13/OAC English credit is mandatory. Enrolment in year 1 physical education is limited to 160 delared majors, and year 2 is restricted to 100 students.

**Fine and Applied Arts**

- **Bachelor of Arts**

*Three-year general/four-year honours*
Available in: film studies, fine arts, music, theatre, visual arts, dramatic literature.

*Admission requirements*
See *General Admission Requirements*. A Grade 13/OAC English credit is mandatory. For solo performance in music, Royal Conservatory Grade 8 is the recommended prerequisite; an audition is also required. Students intending to major in visual arts are requested to submit a portfolio of their work. Fine arts students must fulfil, as a condition of graduation, the second-language requirement prescribed for all Humanities registrants (see *Humanities and Related Courses*, "Admission requirements").

**Humanities and Related Courses**

- **Bachelor of Arts**

*Three-year general/four-year honours*
Available in: Canadian studies, Canadian and European community studies, classics (Greek and Latin), English, Germanic and Slavic studies, history, liberal studies, philosophy, religious studies, romance studies (Italian, French, Spanish).

*Admission requirements*
See *General Admission Requirements*. All Humanities majors must fulfil a second-language requirement. At least one course in a language other than English must be completed unless the student is majoring in a foreign language (in which case an English credit fulfils the requirements).

**Mathematical and Physical Sciences**

- **Bachelor of Science**

*Three-year general/four-year honours*
Available in: biochemistry, biological sciences, chemistry, computer science and information processing, environmental science, geological sciences, mathematics, physical geography, physics.

*Admission requirements*
All programs – see *General Admission Requirements*; chemistry – also required are chemistry, physics, and two Grade 13/OAC credits in mathematics (English recommended); computer science and information processing – compulsory are one mathematics credit (minimum grade 65%), and an overall average of 65% (English recommended); environmental science – biology, chemistry, mathematics, and English recommended; geological sciences – also required are any two of biology, physics, geology, or chemistry (English and mathematics strongly recommended); mathematics – also required are two credits in mathematics (a third mathematics credit and a credit in English recommended); physics – also required are chemistry, physics,

and two credits in mathematics (a third credit in mathematics and English strongly recommended); physical geography – Grade 13/OAC credits in geography, mathematics, and a science strongly recommended.

### Social Sciences and Related Courses

**• Bachelor of Administration**

*Honours program*
Brock's School of Administrative Studies is designed for students interested in pursuing careers in administration, both in the public sector (federal, provincial, and municipal) and the private sector (industry, commerce, labour). Although the program is professionally oriented, is is based on social sciences disciplines, especially in the first two years. During the final two years of the honours program, students specialize in one of eight areas: accounting, computer science, finance, general management, marketing, organizational behaviour/personnel, public administration, or quantitative analysis. Lectures, seminars, case studies, and field work are involved.

*Co-op accounting option*
Brock University offers a limited enrolment co-op program that involves alternating periods of work and study and is approved by the Institute of Chartered Accountants of Ontario. This program fulfils all 45 academic semester-hour requirements as well as two years of articling experience. The B.Admin. degree is awarded upon completion of the co-op program.

*Admission requirements*
An acceptable Grade 13/OAC English credit is compulsory (mathematics recommended). A minimum average of 65% is required for entry into the honours program, though this standard is likely to rise. Applicants to the co-op accounting program should have an overall average of at least 80%; personal interviews are conducted in the spring.

**• Bachelor of Arts**

*Three-year general/four-year honours*
Available in: Asian studies, child studies, communication studies, economics, geography, history, politics, psychology, sociology, teaching English as a second language, and urban and environmental studies.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Business Economics**

*General program*
Offered jointly by the departments of economics and administrative studies, this degree program is designed for students who wish to combine the study of economic and management theory. Graduates seek careers in both the public and private sectors.

*Admission requirements*
Grade 13/OAC English is compulsory (mathematics recommended).

**• Bachelor of Science**

*Three-year general/four-year honours*
Available in: urban and environmental studies (when combined with a science program).

*Admission requirements*
See *General Admission Requirements* .

**• Urban and Environmental Studies (Institute of)**

*General and honours*
This program provides an interdisciplinary focus on urban and environmental studies combined with a sound background in the natural and social sciences. Combined degree programs are offered in conjunction with the departments of biological sciences, chemistry, economics, geography, geological sciences, politics, and sociology.

*Admission requirements*
Grade 13/OAC English is mandatory. Students officially enter the program at the beginning of second year, following a prerequisite first-year program in the collateral discipline of their choice.

*Co-op program*
The institute offers a co-op program that gives students the opportunity for practical experience in their chosen field, with degree credit. Co-op students are placed in government agencies, private firms, and other organizations involved in urban and environmental affairs. Full-time students who are majoring in urban and environmental studies and who have successfully completed year 2 are eligible for the program. Enrolment is limited.

### Special Programs

**• Extradepartmental Studies**
The university offers a variety of degree credit courses that do not fall under the auspices of existing departments. Although one cannot major in extradepartmental studies, the courses may be taken for credit as electives in any program.

**• General and Integrated Studies**
Students who wish to diversify their studies over two or more subject areas, and who do not want to tie themselves to a combined major, may plan a general or an integrated program. All such programs must be approved by the appropriate dean or designate, and by the Registrar's Office.

**• Certificate Programs**
Brock's politics department offers a seven-course program leading to a certificate in public administration. This program is specifically designed for persons already employed in the public sector who wish to embark on part-time studies.

A certificate in urban and environmental studies is also available upon completion of six approved courses, with an overall average of at least 70%.

**• Department of Applied Language Studies**
Throughout the school year this department offers English as a Second Language (ESL) courses designed to develop the English speaking and writing ability of those for whom English is not a native language. Remedial (non-credit) and skill enhancement (single-term, half-credit) courses accommodate students at varying levels of English proficiency.

An Intensive English Langage Program (IELP) has been devised, which prepares international students in English language study and academic orientation skills, thereby facilitating the transition to attendance at a Canadian university. Fourteen-week courses run in the fall, winter, and spring, while a six-summer course is also available.

Brock's program in Teaching English as a Second Language (TESL), not to be confused with the Ontario Ministry of Education certificate program, includes a study of the changes that have taken place in the English language and present theories of ESL instruction and the related field of linguistics, practical application of English language instruction, and the social, psychological, historical, and descriptive features of the English language.

The TESL program is offered in two stages. During three years, students take theoretical courses to earn a B.A. (TESL). The second stage is a one-year B.Ed. (TESL) program; under the supervision of instructors from the Department of Applied Language Studies, students enrol in courses at Brock's College of Education and receive practical training in the teaching of English as a second language.

For more information, contact the Director of the Department of Applied Language Studies at the university.

**Residence 1986-87**
Single room $1 555, double room $1 395. Three meal plans are available: 10 meals per week, $1 497; 14 meals, $1 591; 19 meals, $1 638.

Brock currently has four residences. Students living in the on-campus Shaver and DeCew residences must purchase a meal plan. Approximately 730 students can be accommodated in total. Rooms are assigned on a random selection (lottery) basis; however, applicants with interim averages of 80% or higher are guaranteed a place in residence.

**Scholarships and Financial Assistance**
Brock entrance scholarships are automatically awarded on the basis of interim academic marks; no application is necessary. In 1986-87, students entering year 1 with an 84% average were awarded $500, while those with averages exceeding 90% received $1 000.

Government assistance is available to full- and part-time students in the form of grants and/or loans. (For more information concerning these programs see the introductory section on *Financial Assistance for Students* .)

Questions about scholarships, bursaries, awards, and loan programs should be directed to the Student Awards Office or the Registrar's Office.

**Tuition Fees 1986-87**
(including incidental fees)
Full- and part-time students $266 per course. A full-year program consisting of five courses is $1 330.

Visa students: (new students) $880 per course. Five full courses $4 400.

**Further Information**
*Specific inquiries regarding admissions should be directed to*
Mr. Keith Rae
Associate Registrar – Admissions
or Ms. Linda Vanderburg
Admissions Officer
Office of the Registrar
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550, ext. 3434/3566

*Information concerning student awards and loans may be obtained from*
Mrs. Anne Stavina
Student Awards Office
or

Mr. Barry Joe
Office of the Registrar
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

*General inquiries about Brock University, its programs, and its information sessions in Ontario high schools should be directed to*
Mr. Don Rickers
Ms. Barbara Anderson
External Relations Office
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550, ext. 3245

## Carleton University

## Ottawa

**President: William Beckel**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 10 540 | 1 137 |
| Part-time | 5 153 | 849 |

**Faculties, Schools, and Institutes**
Faculty of Arts
Faculty of Engineering
Faculty of Graduate Studies and Research
Faculty of Science
Faculty of Social Sciences
Institute of Biochemistry
Institute of Canadian Studies
Institute of Soviet and East European Studies
School of Architecture
School of Business
School of Computer Science
School of Continuing Education
School of Industrial Design
School of International Affairs
School of Journalism
School of Public Administration
School of Social Work

**General Admission Requirements**
For the qualifying university year: OSSGD with a minimum 70% average. A minimum of 10 credits taken at the Grades 11 and 12 advanced or enriched level must be presented.

For the first year of a degree program: completion of an OSSHGD with a minimum 60% average (65% for honours and some professional programs).

*Bachelor of Arts (from Grade 12)*
An OSSGD with a minimum 70% average and including two of the following from Grade 12: English, a language other than English, and mathematics. A minimum of 10 credits, taken at the Grades 11 and 12 advanced or enriched level, must be presented.

*Bachelor of Arts (from Grade 13)*
An OSSHGD with a minimum 60% average (65% for honours). For a major in mathematics, functions-relations and calculus must be presented. For majors in biology and economics, functions-relations and calculus are strongly recommended. For a major in psychology, English is recommended. For a major in Canadian studies, French is recommended.

*Bachelor of Science (from Grade 12)*
An OSSGD with a minimum 70% average and an appropriate preparation in mathematics (including Grade 12 mathematics), chemistry, and physics. A minimum of 10 credits, taken at the Grades 11 and 12 advanced or enriched level, must be presented.

*Bachelor of Science (from Grade 13)*
An OSSGD with a minimum 60% average (65% for honours) and credits in functions-relations, calculus, and two sciences. While biology, chemistry, geology, and physics are the subjects normally accepted as sciences, the university will consider other courses on an individual basis.

Prospective students should note that, while only a 60% general average is required for admission, they should have at least 60% or third-class honours in the mathematics and science subjects offered.

**Limited-Enrolment Admission**
Applicants should note that because of limited enrolment in certain programs, holding the minimum admission requirements can only establish eligibility for selection by the university. This is particularly true for admission to the Bachelor of Architecture, Bachelor of Commerce, Bachelor of Computer Science, Bachelor of Engineering, Bachelor of Journalism, and Bachelor of Industrial Design programs.

**Agricultural and Biological Sciences**

- **Bachelor of Arts**

*Three-year general/four-year honours*
Available in: biology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

- **Bachelor of Science**

*Three-year general*
Available in: biology.

- **Bachelor of Science**

*Four-year honours*
Available in: biochemistry, biology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**Engineering and Applied Sciences**

- **Bachelor of Architecture**

A five-year program leading to a Bachelor of Architecture degree and offering a highly varied experience for the student in lectures, seminars, projects, and workshops.

*Admission requirements*
An OSSHGD with a minimum 60% average and credits in functions-relations, calculus, and physics. Applicants are required to submit a portfolio, a biographical résumé, and a 500-word typewritten statement outlining reasons for wishing to study architecture at Carleton. Submission of a portfolio required. Interviews will be given only at the discretion of the Admissions Committee.

Note: This is a limited-enrolment program.

- **Bachelor of Engineering**

Four years, including one-and-one-half years of foundation studies in mathematics, physics, chemistry, and engineering sciences and two-and-one-half years of specialization in civil, electrical, or mechanical engineering. For computer-systems engineering the first, and to some extent the second, year provide the foundation studies, followed by two years of specialization.

*Grade 12 requirements for admission*
An OSSGD with a minimum 70% average and an appropriate preparation in chemistry, physics, and Grade 12 mathematics. A minimum of 10 credits taken at the Grades 11 and 12 advanced or enriched level must be presented.

*Grade 13 requirements for admission*
An OSSHGD with a minimum 65% average and

credits in functions-relations, calculus, chemistry, and physics.

*Incorrect Grade 13 course patterns*
A student unable to meet the specific course requirements above, but otherwise admissible to Carleton University, may be admitted to the first year but will be required to satisfy the outstanding requirements at the qualifying university-year level.
Note: This is a limited-enrolment program.

**• Bachelor of Industrial Design**
A four-year program, industrial design embraces all aspects of human environment that are conditioned by industrial production.

*Admission requirements*
An OSSHGD with a minimum 65% average and credits in functions-relations, calculus, chemistry, and physics. Applicants may be requested to attend an interview. Submission of a portfolio is optional, but strongly recommended.
Note: This is a limited-enrolment program.

## Fine and Applied Arts

**• Bachelor of Arts**

*Three-year general/four-year honours*
Available in: architecture (honours only), art history, film studies, music.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Music**

*Four-year honours*
A four-year program designed principally to promote an intellectual and aesthetic understanding of music within a broad liberal arts framework. Although individual performance instruction is required throughout the four years as an adjunct to academic study, the areas of major concentration offered are music history/musicology and theory/composition.

*Admission requirements*
An OSSHGD with a minimum 65% average. It is expected that students entering the B.Mus. program would have Grade 13 music, the appropriate level of conservatory music, or both.

**• Diploma in Music**
This five-course program is designed to attract individuals who have a background in performance on a musical instrument or voice, and/or have been involved in the teaching of music, and who desire additional academic qualifications.

*Admission requirements*
An OSSHGD with an adequate level of performance. Special consideration will be extended, under mature matriculation regulations, to other applicants.

## Humanities and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: art history, classical civilization/classics (Greek, Latin), English, film studies, French, German, Italian, linguistics, mass communication, music, philosophy, religion, Russian, Spanish.

**• Bachelor of Arts**

*Four-year honours*
Available in: architecture, art history, classical civilization/classics (Greek, Latin), English, film studies, French, German, Italian, linguistics, mass communication, philosophy, religion, Russian, Spanish.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Journalism**

*Honours program*
The aim of this four-year program is not to train technologists; it is to give students the ability to investigate, interpret, and communicate intelligently in any of the mass media. A student can also combine honours level work in arts, science, or commerce with professional training in journalism.

*Admission requirements*
An OSSHGD with a minimum 65% average and a credit in a language other than English (French recommended).
Note: This is a limited-enrolment program.

## Mathematical and Physical Sciences

**• Bachelor of Arts**

*Three-year general*
Available in: computer mathematics, mathematics.

**• Bachelor of Arts**

*Four-year honours*
Available in: computer mathematics, mathematics, operations research, statistics.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Computer Science**
A four-year honours program in computer science. The program is designed with five areas of specialization: software, hardware, theory of computing, scientific applications, and management and business systems.

*Admission requirements*
An OSSHGD with a minimum 65% average, including functions-relations and calculus. Physics is required for the hardware and scientific applications areas of specialization and is recommended for the remaining areas.
Note: This is a limited-enrolment program.

**• Bachelor of Science**

*Three-year general/four-year honours*
Available in: biology, chemistry, computer mathematics, geology, integrated science studies†, mathematics, operations research, physics, statistics (honours only).

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

## Social Sciences and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: Canadian studies*, classical civilization/classics (Greek, Latin)*, criminology and criminal justice, directed interdisciplinary studies, economics, geography, history*, law, political science, psychology, sociology.

**• Bachelor of Arts**

*Four-year honours*
Available in: anthropology, Canadian studies, classical civilization/classics (Greek, Latin)*, criminology and criminal justice, directed interdisciplinary studies, economics, geography, history*, law, political science, psychology, sociology, Soviet and East European studies.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Commerce**
A four-year honours program in management studies. The objective of the program is to prepare students for management positions in business or government. Some specialization is available in accounting, finance, marketing, business systems, and labour and industrial relations.

*Admission requirements*
An OSSHGD with a minimum 65% average and credits in functions and calculus.
Note: This is a limited-enrolment program.

**• Bachelor of Public Administration**

A four-year honours program that provides a general education that will familiarize public servants and students contemplating a career in government service with the main organizational, political, economic, and legal elements of the public service environment.

*Admission requirements*
An OSSGD with a minimum 65% average.
Note: This is a limited-enrolment program.

**• Bachelor of Arts**

*Four-year honours*
Available in: geography, psychology.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

## Special Programs

**• Certificate in English Language and Composition**
This five-course in-service program is intended primarily for practising teachers who wish to upgrade their knowledge of those areas of language and writing theory that underlie the new Ontario Guidelines and support documents.

*Admission requirements*
A university degree or teaching certificate.

**• Certificate in French Language Studies**
A six-course program to permit people with some knowledge of French to achieve a high level of proficiency.

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†See *Special Programs* section for details.

*For the purposes of Carleton University, this course falls under the Humanities heading.

*Admission requirements*
An OSSHGD with a 60% overall average and facility in French to completion of an intermediate level university course.

**•Certificate in Law Enforcement Studies**
This six-course program is designed primarily for persons employed in the areas of law enforcement, national security, or corrections who wish to take university courses.

*Admission requirements*
An OSSHGD with a 60% overall average, or mature applicant.

**•Certificate in Public Service Studies**
A six-course program designed for public employees who seek special training in public service studies at the undergraduate level.

*Admission requirements*
An OSSHGD with a 60% overall average, or mature applicant.

**•Certificate in the Teaching of English as a Second Language**
A five-course program including theory and practice in teaching English as a second language and various optional courses.

*Admission requirements*
An undergraduate degree in linguistics or another subject, or extensive experience in teaching.

**•Diploma in Music**
This five-course program is designed to attract individuals who have a background in performance on a musical instrument or voice, and/or have been involved in the teaching of music, and who desire additional academic qualifications.

*Admission requirements*
An OSSHGD with a 60% overall average, or mature applicant.

**•Integrated Science Studies**
A Bachelor of Science major or honours program designed for those who wish to develop an understanding of the scientific method and at the same time to acquire a knowledge of the humanities, social sciences, or certain selected parts of engineering.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

**Residence 1986-87**
Single rooms $3 165
Double rooms $2 850

**Scholarships and Financial Assistance**
Government assistance is available to full- and part-time students in the form of grants and/or loans.

For further information concerning government assistance see the introductory section on *Financial Assistance for Students* or check with the university's Student Awards Office. The Student Awards Officer will also have details on bursaries and scholarships offered by the university.

**Tuition Fees 1986-87**
(including incidental fees)
*Full-time students*
Arts, commerce, public administration, journalism, music, science, computer science $1 463.65
Architecture, engineering, industrial design $1 572.65
Qualifying year $1 841.65

*Part-time students (per subject, including incidental fees)*
Degree and non-degree programs $283.60 full credit, $141.80 half-credit

**Further Information**
*Inquiries about admission should be directed to*
Office of Admissions
Room 315, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 564-3730

*Inquiries about student awards and loans should be directed to*
Awards Office
Room 202, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 564-3735

*Inquiries about university information programs for secondary schools should be directed to*
Student Liaison Office
Room 315, Administration Building
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 564-2738
Toll free 1-800-267-8858

# University of Guelph

## Guelph

**President: Burton C. Matthews**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 10 000 | 1 000 |
| Part-time | 2 100 | 179 |

**Faculties, Schools, and Institutes**
College of Arts
College of Biological Science
College of Family and Consumer Studies
College of Physical Science
College of Social Science
Ontario Agricultural College
Ontario Veterinary College
Faculty of Graduate Studies
Office of Research
University School of Rural Planning and Development
University School of Part-Time Studies and Continuing Education
School of Engineering
School of Hotel and Food Administration
School of Human Biology
School of Landscape Architecture
Centre for International Programs
Gerontology Research Centre

**General Admission Requirements**
Applicants should qualify for the OSSHGD with standing in specific Grade 13 subjects as required by the particular degree program.

Ontario secondary school students seeking admission to the first semester of all programs leading to a bachelor's degree at the University of Guelph may present either the OSSHGD or OSSD.

Students presenting the OSSD must include a minimum of six Ontario Academic Courses (OACs). An overall average of 60% in six OACs is the minimum required for admission consideration. Until further notice, special subject requirements for particular degree programs will remain the same as those currently prescribed for admission from Ontario Grade 13. The OSSHGD and the new OSSD will be given equal credit for admission purposes.

It should be noted that the length of time taken by an applicant to complete the OSSD will not of itself be a determining factor in making decisions on admission. Students completing the OSSD in four years will not be given preference in admission over those completing the program in five years or less, providing the latter have proceeded normally through the program without repeating any courses or credits.

*Bachelor of Arts*
Year 5 subject requirements – one credit in English, five additional credits. Students are strongly encouraged to offer a credit in mathematics or a credit in French (or another language) among the additional five credits. Also, students planning to enter programs in the social or mathematical sciences are advised to include a mathematics course such as calculus, algebra, or functions and relations.

Semester one is taken common by both honours and general students. Thus the selection of a final program may be delayed until the second semester. Semester one students must normally take one 100 level course from each of two different departments in the College of Arts and one 100 level course from each of two different departments in the College of Social Science. The general program is designed to provide a sound liberal education, allowing for varying degrees of specialization in one or more subjects and requiring intensive study at a senior level. To graduate from this program a student must pass 30 courses, including at least 8 courses at the 300 level, and at least 60% of all course attempts must be at a grade of "C" or better.

Students may choose from three patterns of study:

1. *Major:* To graduate with a single major, a student must successfully complete at least 10 semester courses in that subject.
2. *Double Major:* Students may graduate with two subjects as majors by passing at least 10 semester courses in each subject.
3. *Individual Study Pattern:* Normally students choose a pattern of study from those offered in the B.A. program. In some instances a student, because of special needs or academic interests, may wish to draw on the resources of several disciplines in a way not provided for in the regular offerings. Students must ensure that at least 18 of the required 30 courses are from courses offered by the College of Arts, the College of Social Science, the Department of Computing and Information Science, and the Department of Mathematics and Statistics.

The honours program, consisting of eight semesters, is designed to provide intensive study in one or two subject areas while at the same time ensuring a complementary breadth of education. To graduate from this program a student must sucessfully complete 40 semester courses, including at least 14 courses at the 300 level or above. There are three main patterns of study a student may follow:

1. *Specialized Honours:* requiring successful completion of at least 22 semester courses in one major subject area.
2. *Major and Minor Honours:* requiring a combination of specializations in two subject areas totalling 28 successfully completed semester courses, divided between a major and a minor concentration.
3. *Combined Honours:* requiring successful completion of at least 14 semester courses in each of two subjects chosen.

*Bachelor of Science*

One credit in mathematics, two credits from biology, chemistry, or physics, one additional credit from biology, chemistry, mathematics, or physics, and two additional credits.

Applicants are advised to include functions and relations and one English credit in their Grade 13 program of studies. Applicants who lack one specific Grade 13 subject requirement but who have a high overall Grade 13 standing are also encouraged to apply for admission.

Students contemplating admission to the Doctor of Veterinary Medicine program should include the following courses in their Grade 13 program of studies: functions and relations, biology, physics, and chemistry.

Students in the general and honours Bachelor of Science programs take the same basic courses in the first and second semesters. Thus the final selection of a general or a specific honours program may be delayed until the third semester. The general program offers a liberal education, whereas in the honours program the student has the following options: single major; major and minor; biological science; physical science; specialized programs. Course options in the general (six-semester) program and honours (eight-semester) program are given under specific subject areas. See the calendar for full details.

**Innovations in Secondary School Subjects**

The university will consider, for credit toward admission, courses regarded as innovations in the Ontario secondary school system if they are approved by the Ontario Ministry of Education.

**Fall Semester Admission**

Studies begin in September. Fall semester admission to all programs may be granted to candidates who satisfy in full the general entrance requirements.

**Winter Semester Admission**

Studies begin in January. Under an agreement with the Ontario Ministry of Education, the University of Guelph may admit to the first semester students who are in the process of completing their final secondary school credits for graduation in January. To be considered, students must show promising scholastic ability, must be enrolled in their senior secondary school credits for the first time, and must present an estimated minimum overall average of 64%. These students are admitted directly from secondary school and begin study at the university in early January. The following degree programs offer January admission: arts, sciences, agriculture, human kinetics, engineering, family and consumer studies. Candidates who have, for various reasons, delayed entry to the university may also apply at this time. Admission may only be granted to candidates who satisfy in full the general program entrance requirements. The university will grant the University of Guelph Matriculation Certificate should the student not be eligible to receive the OSSHGD. Students should refer to the undergraduate calendar or admissions handbook for complete details about winter admission.

**Spring Semester Admission**

Studies begin in May. Spring admission to the arts, science, human kinetics, agricultural science, and family and consumer studies programs may be granted to candidates who satisfy the general entrance requirements. Students who are in the process of completing their final secondary school credits for graduation in June may be considered if they meet the following criteria: an estimated minimum overall average of 64%; demonstration of promising scholastic ability; enrolment in senior secondary school credits for the first time. Students accepted under the Spring Admission Plan are granted an OSSGD or the University of Guelph Matriculation Certificate. An OSSHGD will only be granted when students can arrange a suitable timetable with the principal of their school to complete the required credit hours before spring semester registration. Students who complete secondary school in January may wish to apply.

**Summer Sessions**

Studies begin in May or July, and each session is six weeks in length. Admission to arts, science, human kinetics, family and consumer studies, agriculture, and general studies may be granted to candidates who satisfy the general entrance requirements in full. For the May session, admission may be granted to candidates who satisfy the conditions as outlined under "Spring Semester Admission" (see above). Candidates applying to the July summer session should enter "A86" as the expected enrolment date.

**Early Acceptance**

(Acceptance for September on the date agreed to by the Ontario Universities Council on Admissions. See the *General Information on Ontario Universities* section of this publication.)
Early acceptance to all programs may be granted to candidates who satisfy the general entrance requirements in full, are enrolled in Grade 13 for the first time, and have an estimated minimum average of 60%.

### Agricultural and Biological Sciences

**• Associate Diploma in Agriculture**

This four-semester program is designed to give students an appreciation of science and its application to agriculture. After a common first semester, students specialize in one of three divisions: agri-business, farm operators and managers, or horticulture with an emphasis in fruit and vegetable production, landscape, or turf management.

*Admission requirements*

The minimum academic requirement for admission is an OSSGD or its equivalent.

Applicants should include credits in mathematics and English from the senior division at the Grade 12 graduating level. Applicants who do not meet the English or mathematics requirement, but who otherwise have a good academic record and agricultural experience, may be considered for admission.

A final decision on the admissibility of an applicant will be based on a review of academic performance and, at the request of the Admission Committee, the Background Information Form for the Associate Diploma in Agriculture program.

**• Bachelor of Science**

*Three-year general*

Available in: biological science areas, physical science areas.

**• Bachelor of Science**

*Four-year honours (specialization)*

Available in: biochemistry, biophysics, botany, ecology, fisheries biology, food science, geography, human biology, marine biology, microbiology, molecular biology and genetics, nutrition and biochemistry, psychology, toxicology, wildlife biology, zoology.

*Admission requirements*

See *General Admission Requirements,* "Bachelor of Science".

**• Bachelor of Science in Agriculture**

*Honours program*

This eight-semester program is designed to provide fundamental education in the science of agriculture. The first two semesters feature a common curriculum, and students may select a major from one of several areas before the commencement of the third semester. Majors are available in the following areas of specialization: agricultural business, agricultural economics, agricultural mechanization, animal and poultry science, applied microbiology, crop science, dairy science and technology, entomology/apiculture, environmental biology, horticultural science, plant protection, resource economics and rural development, resources management, and soil science.

The curriculum also provides an opportunity for students to elect, if they so wish, a minor that will complement their selection of a major. Students wishing to concentrate their elective courses in a particular area are advised to consult the schedule of studies for the various minors available in the program.

Minors are available in agricultural business, biotechnology-agriculture, rural extension, international agriculture, resources economics, animal and poultry science, and agricultural mechanization.

*Admission requirements*
One credit in mathematics, two credits from biology, chemistry, or physics, one additional credit from biology, chemistry, mathematics, or physics, and two additional credits.

Although students are required to have the credits specified in the admission requirements, they should take the following credits to obtain optimum preparation in Ontario Grade 13: functions and relations, a second mathematics, chemistry, physics, biology, and English.

Applicants who lack one specific Grade 13 subject requirement, but who have a minimum of 70% overall Grade 13 standing, are also encouraged to apply for admission.

Applicants are selected for admission on the basis of academic performance and, if required by the Admissions Committee, on the basis of a review of a Background Information Sheet to be submitted upon request.

### • Doctor of Veterinary Medicine

Eight semesters; course of study prescribed. Students are selected for admission to a pre-veterinary year of two semesters, from which they may proceed to the first semester of the program leading to the Doctor of Veterinary Medicine degree, veterinary medicine program. Therefore, candidates should ensure that they satisfy the admission requirements as specified for the pre-veterinary year.

*Application procedure*
Application forms are available upon request from the Admissions Section, Office of the Registrar, Level 3, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Application forms must be submitted no later than February 1 of the year for which admission to the pre-veterinary year is sought. The admission procedure will be conducted during the summer months, and successful candidates will then register for the pre-veterinary year that will proceed through the fall and winter semesters. Academic transcripts and other supporting documents must be submitted no later than June 15, following the February 1 deadline for submission of the applications. Prospective candidates will be expected to provide other documents, such as background information, as the admission process continues.

*Residence requirements*
Canadian citizens or individuals who have permanent resident status of at least one year's duration and who are residents of Ontario will be considered for admission to the Ontario Veterinary College. "Resident" in this context is someone who has resided in Ontario for 12 months, exclusive of time spent in postsecondary institutions. Consideration will be given to a small number of exceptional students who are residents of Quebec and to other Canadian students in special circumstances with regard to residence.

Applicants from countries that do not have appropriate veterinary education facilities will be considered if they satisfy the standards specified for Canadian applicants. Preference in this category may be given to those students sponsored by the Canadian International Development Agency. Students from countries that have appropriate veterinary educational facilities will not be considered under normal circumstances.

*Academic requirements*
Applicants who have completed one or more academic years of an Ontario university level program or the equivalent, including the following specific course requirements, are eligible to apply to the pre-veterinary year: biological sciences – two semester courses (zoology recommended); chemistry – two semester courses (organic recommended); mathematics – one semester course; physics – one semester course (biophysics recommended); humanities or social sciences – two semester courses; electives – two semester courses.

This preparation need not be completed in a specialized college or faculty or in a designated pre-veterinary program. Students wishing to undertake their preparatory work at the University of Guelph should seek admission to the B.Sc. or the B.Sc. (Agr.) programs. Students who wish to undertake their preparatory work at another university should select an institution that offers the specific course requirements listed above as part of a degree program and that has rigorous entrance requirements and a reputation for academic quality.

Because of limitations in class size in the pre-veterinary year (and the D.V.M. program), all candidates should have a secondary career objective. The best preparation for the pre-veterinary year is to fulfil all course requirements while attaining excellence in the preparation for an alternative career.

*Selection criteria*
Since the number of students who satisfy the specific course requirements exceeds the number of available spaces in the pre-veterinary year, the Sub-Committee on Admissions may use the following criteria to determine those who will be admitted to the pre-veterinary year. The members of the Sub-Committee endeavour to select those well-qualified applicants who, in their judgement, will be best able to complete the veterinary medicine curriculum successfully, and who exhibit potential to become competent, responsible veterinarians dedicated to a lifetime of productive public service and continued learning.

*Academic achievement and aptitude*
In view of the need to learn large amounts of factual material efficiently and quickly and to solve problems, applicants must have demonstrated achievement in the comprehension of scientific material. This will be evaluated by the scrutiny of transcripts and previous academic records. Only those candidates who achieve a mid-"B" average on the basis of university level prerequisite subjects and on the basis of performance in the last two full-time semesters at the undergraduate level will be considered beyond the initial step. Attention will be paid to both the quality and consistency of grades in the program presented as preparation for admission, particularly for those students who have spent more than the minimal time in preparation.

*Background information and interview form*
Applicants will be asked to complete this form, in which academic background information is requested, as well as a résumé of work experience and extracurricular activities. Applicants are asked to write a short essay about their reasons for wishing to study veterinary medicine.

*Interviews*
Interviews conducted under carefully regulated conditions give candidates an opportunity to display their ability to communicate effectively and give the interviewers an opportunity to assess students' attitudes and sensitivities for veterinary medicine. Such interviews are subjective evaluations carried out between individual, selected candidates and three experienced interviewers, at least two of whom are veterinarians. Students should present evidence of experience and knowledge pertaining to animals beyond a simple love of animals. Such achievements can be associated with jobs or experience with breeding, rearing, feeding, and showing various kinds of animals, including pets, zoo animals, farm animals, and wildlife. Such experience can also be associated with the teaching of, or research in, basic medical sciences. Candidates should be familiar with the duties and responsibilities of veterinarians and the scope of veterinary medicine. All interviews are held at the University of Guelph (no exceptions can be made).

*Personal characteristics*
The committee endeavours to select candidates who display integrity, reliability, maturity, and determination. It is important that professional people have excellent communicative skills, poise, attributes of leadership, and a talent for working effectively with others.

## Education/Physical Education/Recreation

### • Bachelor of Science in Human Kinetics

*Honours program*
Eight semesters. A human kinetic studies program with emphasis on the areas of scientific application to human activity. Based firmly on the biological and physical sciences; studies include anatomy, biomechanics, genetics, nutrition, physiology, psychology, and sociology. Interdisciplinary subject-matter includes kinesiology, exercise physiology, and the scientific measurement of human performance.

*Admission requirements*
One credit in mathematics, two credits from biology, chemistry, or physics, one additional credit from biology, chemistry, mathematics, or physics, and two additional credits.

Applicants are advised to include functions and relations and one credit in English in their Grade 13 program of studies. Applicants who lack one specific Grade 13 subject requirement, but who have a high overall Grade 13 academic standing, are also encouraged to apply for admission.

## Engineering and Applied Sciences

### • Bachelor of Landscape Architecture

*Honours program*
Eight semesters. The first four semesters are largely devoted to basic study in basic design, landscape design, urban planning, and the natural sciences. In the final four semesters emphasis is placed on professional courses in landscape design, planning, and construction, but with the addition of social sciences and humanities to give sound direction to the practice in design and planning.

*Admission requirements*
Students must have successfully completed at

least one academic year (*i.e.*, a minimum of 10 semester courses or the equivalent) of a university-level program. Prerequisites are: introduction to design, history of cultural form, and plant biology, or their equivalents. These requirements can be met in most undergraduate degree programs at Guelph.

Applicants must complete background information sheets that will be forwarded to them after the April 1 application deadline. Those selected for interviews are required to bring with them a portfolio of related creative work.

*Application procedure*
Application forms are available from the Admissions Section, Office of the Registrar, Level 3, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Deadline for the submission of applications is April 1 of the year for which admission is sought. Academic transcripts and other supporting documents must be submitted no later than June 15, following the April 1 deadline for submission of the applications.

**• Bachelor of Science**

*Four-year honours (specialization)*
Available in: applicable mathematics, applied chemistry, biochemistry, biophysics, chemical physics, chemistry, computing and information science, earth science, mathematics, physics, statistics, theoretical physics.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**• Bachelor of Science in Engineering**

*Honours program*
Eight semesters. Students in this program obtain a liberal engineering education that enables them to undertake the solution of engineering problems of the biological world and the associated environment of soil, water, and atmosphere. Core subjects, combined with liberal elective opportunities, give an understanding of the environment in which food is produced and human activity takes place. This understanding is used to develop the capability to design machines, structures, and systems to operate within the environment. Concern over both the urban and rural environments is opening new challenges for engineers to optimize the use made of air, water, and land for the community at large.

Career opportunities are open in many segments of the economy. Examples are: agricultural and food industries for production, processing, storage, and transportation; resources agencies in advisory, regulatory, planning, and utilization; service industries of construction, power and water supply, and public health; manufacturing industries for design, testing, and production of machinery and structures for farm and forest; private consulting services to municipalities, utilities, and industry. Many engineers assume management responsibilities after gaining experience in design, development, and operations. The liberal education in life, earth, and agriculture sciences, in addition to the social sciences and humanities, prepares students for career mobility. Students must select a major area of study in one of the following: agricultural engineering, biological engineering, water resources engineering. Guelph's baccalaureate programs in engineering are fully accredited by the Canadian Accreditation Board of the Canadian Council of Professional Engineers.

*Admission requirements*
Calculus, functions and relations, algebra, physics, chemistry, and one additional credit.

### Fine and Applied Arts

**• Bachelor of Arts**

*Three-year general/four-year honours*
Available in: drama, fine art, music.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

### Humanities and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: English, French, German, Greek, history, Italian, Latin, linguistics, philosophy, Spanish.

**• Bachelor of Arts**

*Four-year honours*
Available in: classical studies, English, French, German, history, Italian, Latin, philosophy, Spanish.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

### Mathematical and Physical Sciences

**• Bachelor of Arts**

*Three-year general*
Available in: computing and information science, mathematics, statistics.

**• Bachelor of Arts**

*Four-year honours*
Available in: computing and information science, mathematical science (minor honours only), mathematics, statistics.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Science**

*Three-year general*
Available in: chemistry, mathematical science, physics.

**• Bachelor of Science**

*Four-year honours*
Available in: applied mathematics, applied chemistry, biochemistry, chemical physics, chemistry, computing and information, earth science, mathematics, physics, science, statistics, theoretical physics.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

### Social Sciences and Related Courses

**• Bachelor of Applied Science**
**(College of Family and Consumer Studies)**

*Honours program*
Students in the eight-semester honours program in family and consumer studies (Bachelor of Applied Science) select one of four major areas of study: family studies, consumer studies, applied human nutrition, or child studies. The program is interdisciplinary and provides a distinctive and integrated focus of applied science in each of the four majors. Courses from the traditional disciplines in other colleges of the university are coupled with courses offered by faculty members in the College of Family and Consumer Studies whose own backgrounds reflect the interdisciplinary nature of the college. Laboratory, practicum, and field experiences enhance the students' opportunities to grasp the contributions of the social, physical, and biological sciences to significant facets of human behaviour and experience, whether in family, community, or educational settings or in the market place.

Students may enter the program in the spring, fall, or winter semesters. Upon admission or following one or two semesters in the program, students select one of the four major areas of study.

*Admission requirements*
One credit in mathematics, one credit in chemistry or biology, one additional credit chosen from the following group: English, français, biology, chemistry, mathematics, or physics, and three additional credits.

Applicants are advised to include functions and relations in their Grade 13 program of studies. Students are advised to consult the schedule of studies for the B.A.Sc. program in the university calendar to determine the appropriate selection of Grade 13 credits for the major area of proposed study.

**• Bachelor of Arts**

*Three-year general*
Available in: Canadian studies, economics, geography, international development, management economics, mathematics, political studies, psychology, settlement studies, sociology/anthropology, women's studies.

**• Bachelor of Arts**

*Four-year honours*
Available in: biology (minor honours only), business administration (minor honours only), Canadian studies (major or minor honours only), consumer studies (minor honours only), economics, environmental studies (minor honours only), family and child studies (minor honours only), geography, international development, management economics, mathematical sciences (minor honours only), political studies, psychology, settlement studies (minor honours only), sociology/anthropology, women's studies (minor honours only).

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Science**

*Four-year honours*
Available in: geography, psychology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**• Bachelor of Commerce**
**(Hotel and Food Administration)**

*Honours program*
Eight semesters. The program in the School of Hotel and Food Administration is of an interdisciplinary nature, drawing on courses in the humanities, social sciences, food sciences, and physical and biological sciences. It is designed to give students both a broad exposure to the basic dis-

ciplines (e.g., psychology, chemistry, sociology, economics) and a sound professional management education that prepares graduates to assume positions of responsibility in the accommodation and/or food service industries. Work experience in the hospitality industry is required for students to graduate from this program.

Students in the Hotel and Food Administration program may select one of two majors: hotel and food administration, or institutional food-service management.

*Admission requirements*
One credit in mathematics, one credit chosen from the following group: English, chemistry, or a second language, and four additional credits. Applicants who wish to obtain the optimum preparation are advised to include chemistry and English in their Grade 13 program of studies.

## Special Programs

### •General Studies Program

The objective of the general studies program is to provide persons the opportunity to take university courses before registering in a specific degree program or to take university courses for general interest with no immediate intention of registering in a degree program. The general studies program does not lead toward a specific undergraduate degree at the University of Guelph. Students may register for full- or part-time studies. Contact Admissions, Office of the Registrar.

*Admission requirements*
Applicants must be at least 21 years of age and have been out of secondary school for at least two years.

*For additional information contact*
School of Part-Time and Continuing Education
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120 ext. 3494

### •Co-operative Education Programs

Co-operative education formally integrates the student's academic study with work experience in co-operating employer organizations. The usual plan is for the student to alternate periods of study with periods of work in appropriate fields of business, industry, government, social services, and the professions. Progress on the job is monitored by the institution and is supervised and evaluated by both the employer and the institution.

*Programs offered*
Co-operative education programs are available in agricultural business, agricultural economics, agricultural engineering, animal and poultry science, applied chemistry, applied microbiology, biochemistry, biological engineering, child studies, computing and information science, crop science, dairy science, family studies, food science, horticulture, microbiology, psychology, soil science, and water resources engineering. Consumer studies is currently under consideration.

*Admission requirements and information*
To be eligible for a co-operative education program a student must be registered as full-time, achieve at least a 70% average (both overall and in major) in semesters 1 and 2, be a Canadian citizen or landed immigrant, and have an interview with a selection team.

*Note:* Applicants to the engineering program for fall 1987 will apply for co-op engineering in semester 1. All co-op applicants will apply directly to semester 1 in the fall of 1988.

Enrolment in the programs will be limited, and the number of students admitted is generally dependent on the employment market. Students will normally only be considered for admission to co-op at the semester 3 or semester 4 level.

*For additional information contact*
B.A. McCallum
Associate Director
Work Study Programs
Counselling and Student Resource Centre
University of Guelph
Guelph, Ontario N1G 2W1

### Residence Fees 1985-86

*Single students*
For all but apartment-style residences (two semesters)
Single room $1 720
Double room $1 610

*Married students (townhouse)*
Furnished $390 per month
Unfurnished $380 per month

*Meal plans (per semester)*
Plan A $610
Plan B $670
Students accommodated in all but apartment-style residences are required to select one of the above meal plans. These plans are also available to students accommodated in apartment-style residences and to those living off campus. A semester, for room and board purposes, will terminate on the date announced for conclusion of examinations.

### Tuition Fees 1986-87

(Including incidental fees.) The tuition fees listed apply to Canadian students and those with permanent resident status. Fees are subject to change.

*Full-time students per semester:*

| | |
|---|---|
| Associate Diploma in Agriculture | $238.90 |
| Bachelor of Applied Science | $689.90 |
| Bachelor of Arts | $672.90 |
| Bachelor of Commerce | $690 |
| Bachelor of Landscape Architecture | $695 |
| Bachelor of Science | $695 |
| Bachelor of Science (Agriculture) | $695 |
| Bachelor of Science (Engineering) | $744 |
| Bachelor of Science (Human Kinetics) | $695 |
| Doctor of Veterinary Medicine (1st term) | $695 |
| General Studies | $673 |

### Further Information

*Admission inquiries should be directed to*
Admissions
Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 821-2130

*Information and application forms for student awards and loans may be obtained from*
Awards
Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1

*Inquiries regarding university information programs for secondary schools should be directed to*
Admissions
Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1

*Inquiries regarding campus visits for secondary school students should be directed to*
Admissions
Office of the Registrar
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 821-2300
or 821-2130

# Lakehead University

## Thunder Bay

**President: Dr. R.G. Rosehart**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 3 272 | 132 |
| Part-time | 1 754 | 131 |

**Faculties, Schools, and Institutes**
Faculty of Arts and Science
Faculty of Professional Schools and Programs
School of Business Administration
School of Education
School of Engineering
School of Forestry
School of Library Technology
School of Nursing
School of Physical Education and Outdoor Recreation

**General Admission Requirements**
The standard for admission to a degree program at Lakehead University is the successful completion of an OSSHGD or OSSD with a minimum overall average of at least 60%. In addition to obtaining this general level of academic maturity, candidates are required to include in their senior high school programs certain subjects required from specific majors. For example, Grade 13/OAC English is required for a Bachelor of Arts program. These specific requirements are noted in the university's calendar.

*Bachelor of Arts*
Admission to first year of the arts degree programs requires satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC in English in their program. Honours Bachelor of Arts – fine arts (music) – music majors should have Grade 8 level of performance or the equivalent. Honours Bachelor of Arts – fine arts (visual) – in order to determine the ability and potential of a student seeking entry into the program a portfolio must be submitted to the Division of Fine Arts by the end of May for September admission. French majors – one Grade 13/OAC in French required. B.A. (geography)/Honours Bachelor of Outdoor Recreation – same as arts. Admission to a degree program in the Department of Mathematical Sciences requires credit in at least one of algebra, algebra and geometry, and finite mathematics or functions and relations, in addition to other admission requirements. Honours Bachelor of Social Work – same as arts.

*Bachelor of Science*
Admission to the first year of the science degree program requires satisfactory completion of an OSSHGD or OSSD, including six OACs, or equivalent, with a minimum overall average of 60%. Applicants must include Grade 13/OAC English and calculus, as well as three courses selected from algebra, algebra and geometry, functions and relations, finite mathematics, chemistry, physics, and biology. Students considering a science program should include in their secondary school program a pattern of subjects consistent with their planned university major. Applicants to the Bachelor of Science (natural science) program may be eligible for admission without some of the course requirements listed above. Admission to a degree program in the Department of Mathematical Sciences requires credit in at least one of algebra, algebra and geometry, and finite mathematics or functions and relations, in addition to other admission requirements.

*Diploma programs*
Admission to diploma programs is based upon successful completion of an OSSD or OSSGD based on an Ontario Grade 12 advanced level program (or equivalent). The overall average must be at least 60%. Certain diploma programs also require specific subjects at the Grades 11 and 12 levels for admission.

Applicants with high standing in general Grade 12 programs will be considered on an individual basis. All other applicants to diploma programs, with special circumstances, will be considered on an individual basis. Please note that Ontario students applying for admission to engineering technology programs from Grade 13 or with an OSSD and six OACs will be considered for the second year of the program if they meet the subject and grade requirements. See the program listing in the *Engineering and Applied Sciences* section for exact requirements.

**Special Consideration**
An applicant who lacks a specific required subject for his or her planned program or major may be considered if the level of achievement in associated subjects is substantially better than average. Each student in this category is considered on an individual basis.

**Extraordinary Admission**
The university will consider applicants for admission who have been away from formal education for at least two years. Applicants will likely be interviewed by an Admissions Committee representative and may be required to provide evidence of their proficiency in English. Each case is considered on its own merits.

**Admission to First-Year University from Grade 13 (February)**
Lakehead University offers courses at the first-year university level from February to the end of April. The program allows the completion of up to three full credits, and students may continue with the spring session or summer school to complete the two remaining first-year credits. This program was designed primarily to suit the needs of students graduating from semestered high schools at the end of January.

**Admission to First-Year University from Grade 12**
The university is prepared to consider exceptional advanced level Grade 12 students who attain an average of 80% and are recommended by their principal or school counsellor for entrance to the first year of an appropriate degree program. Students may also be allowed on this basis to take a Lakehead University course as a deferred credit while completing their Grade 13 program.

**Early Admission**
Ontario Grade 13/OSSD students who apply early and who have maintained at least third-class standing will be considered for early admission. All students who apply early will be advised before the end of their school year with regard to their admission status. Early admission consideration will also be extended to students who apply for admission to diploma programs in engineering technology (year 1), forest technology, and library technology.

### Agricultural and Biological Sciences

- **Bachelor of Science**

*Three-year and four-year general*
Available in: biology.

*Three-year general*
Available in: natural science.

- **Bachelor of Science**

*Four-year honours*
Available in: biology, forestry.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science", or "Honours Bachelor of Science in Forestry".

### Education/Physical Education/Recreation

- **Bachelor of Arts – Bachelor of Education (combined)**
  **Bachelor of Education**
  **Bachelor of Science – Bachelor of Education (combined)**
  **Master of Education**

The following professional four-year programs are offered for teachers: concurrent degree programs in arts or science and education for those who wish to teach at the primary-junior, junior-intermediate, or intermediate-senior levels. The equivalent of one year of professional studies and practice will provide the basis of certification in all programs.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the primary-junior specialization: anthropology, English, French, history, philosophy, psychology, sociology.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the junior-intermediate specialization: English, geography, history, mathematics, philosophy, political studies, psychology.

The following majors are available to B.A.-B.Ed. candidates wishing to complete the intermediate-senior specialization: English, French, geography, history, mathematics.

The following major is available to B.Sc.-B.Ed. candidates wishing to complete the primary-junior specialization: general science (natural science concentration).

The following majors are available to B.Sc.-B.Ed. candidates wishing to complete the junior-intermediate specialization: general science (natural science concentration), general science (chemistry concentration).

Lakehead University also offers a one-year Bachelor of Education degree program for holders of approved degrees, qualifying the candidate for teaching at the primary-junior, junior-intermediate, or intermediate-senior level.

*Admission requirements*
Admission requirements to the first year of a four-year B.A.-B.Ed. or B.Sc.-B.Ed. program requires the satisfactory completion of an OSSHGD or OSSD with six OACs (or equivalent), with a minimum overall average of at least 60%. In addition to the prerequisites for specified majors, for B.A.-B.Ed., Grade 13/OAC English is required; for B.Sc.-B.Ed. the Grade 13/OSSD

program should satisfy the requirements listed under *Bachelor of Science*.

**• Bachelor of Outdoor Recreation**
*Four-year honours*

*Admission requirements*
Satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC in English in their program.

**• Bachelor of Physical Education**
*Four-year honours*

*Admission requirements*
Satisfactory completions of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC in English in their program. Note: Candidates with an acceptable university entrance program, but not including chemistry, will be considered on an individual basis. Candidates admitted without Grade 13 chemistry will be required to take chemistry 1060 as one of their first-year options.

### Engineering and Applied Sciences

**• Bachelor of Applied Science**
*First year only*

*Admission requirements*
Six Grade 13/OAC credits, including functions and relations, calculus, algebra, chemistry, and physics.

**• Bachelor of Engineering (Postdiploma)**
*Two years*

*Admission requirements*
Diploma in technology from a college of applied arts and technology, Ryerson Polytechnical Institute, Lakehead University, or its equivalent. Specialization in: chemical, civil, electrical and mechanical.

Please note that Grade 13/OAC applicants who are eligible for entrance to the second year of engineering technology may continue at Lakehead, receiving an engineering degree after four successful years of study. Grade 12 applicants enter first year, receive a diploma after three years, and may obtain an engineering degree after two further years of study.

**• Honours Bachelor of Science in Forestry**
*Four-year honours*

*Admission requirements*
Satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include Grade 13/OAC calculus, chemistry, and functions and relations in their program. Applicants lacking functions and relations will be considered on an individual basis.

**• Diploma in Engineering Technology**
*Three years for Grade 12 graduates; two years for Grade 13/OSSD graduates with six OACs holding admission requirements.*
Specialization in: chemical, civil, electrical, and mechanical engineering technology.

*Admission requirements*
Admission to the first year of the engineering technology program requires an OSSGD/OSSD (or equivalent) including Grades 11 and 12 advanced level mathematics and sciences with a minimum 60% average. Commencing September 1990, Grade 12 advanced level English will also be required. After a common first year, candidates will select one of the following four programs: chemical engineering technology, civil engineering technology, electrical engineering technology, or mechanical engineering technology.

Admission to the second year of the engineering technology program requires an OSSD including six OACs (or equivalent) with a minimum overall average of 60% and an average of 60% in the mathematics courses (or their equivalent). The OACs must include calculus, algebra and geometry, chemistry, and physics. Commencing September 1990, applicants will require Grade 12 advanced level English. Preference will be given to students with an OAC in English.

During the transition period, admission to the second year of the engineering technology program requires an OSSHGD or OSSD including six OACs (or equivalent), with a minimum overall average of 60%, including chemistry, physics, calculus (OAC or Grade 13), algebra (Grade 13) or algebra and geometry (OAC), and functions and relations (applicants lacking this credit will be considered on an individual basis). An average of 60% in mathematics courses is required. Commencing September 1990, applicants will require Grade 12 advanced level English and preference will be given to students with an OAC in English.

**• Diploma in Forest Technology**
*Two years*

*Admission requirements*
An OSSGD/OSSD (or equivalent) including Grades 11 and 12 advanced level mathematics and sciences (Grade 12 advanced level chemistry required), with a minimum 60% average.

### Fine and Applied Arts

**• Bachelor of Arts**

*Four-year honours*
Available in: fine arts (majors in music, visual arts).

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts". Visual arts applicant must submit a portfolio for evaluation. Music students will be required to audition prior to admission. Music applicants must present Grade 8 or equivalent in their major instrument, as well as Grade 2 theory.

### General Arts and Science

**• Bachelor of Arts**

*Three-year general*
Available in: general program.

**• Bachelor of Science**

*Three-year general*
Available in: general program.

### Health Professions and Medical Sciences

**• Bachelor of Science in Medical Laboratory Science**
*Four-year honours*

*Admission requirements*
The medical laboratory science program is a postregistered technologist's program and requires registered technologist's certification (RT). Applicants may complete the program in three years.

**• Bachelor of Science in Nursing**
*Four-year honours*

*Admission requirements*
Satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include Grade 13/OAC biology, chemistry, and English in their program. Mathematics is strongly recommended.

Candidates who are Registered Nurses must:
a) have evidence of registration to practise nursing in Canada;
b) have taken Grade 13/OAC chemistry (or equivalent); Grade 13/OAC mathematics and English are strongly recommended;
c) meet university entrance or mature student requirements.

Registered Nurses admitted under the above criteria may enter the streamlined program, which will allow them to complete their Honours Bachelor of Science in Nursing degree in two calendar years.

Mature students are required to have Grade 13/OAC chemistry (or equivalent), and Grade 13/OAC English and mathematics are strongly recommended.

### Humanities and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: English, English (concentration in Canadian studies), history, French, mathematics, philosophy.

**• Bachelor of Arts**

*Four-year honours*
Available in: English, history, French, mathematics, philosophy.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Diploma in Library Technology**
*Two years*

*Admission requirements*
Satisfactory completion of an OSSGD/OSSD or equivalent, with a minimum 60% average.

### Mathematical and Physical Sciences

**• Bachelor of Arts**

*Three-year general*
Available in: computer science, mathematics.

**• Bachelor of Arts**

*Four-year honours*
Available in: computer science, mathematics.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Science**

*Three-year general*
Available in: biology, chemistry, chemistry with energy and fuel science, computer science, geography, mathematics, natural science, physics, physics with energy and fuel science, psychology.

**• Bachelor of Science**

*Four-year general*
Available in: biology, applied chemistry, computer science, geology, geology with energy and fuel science, mathematics.

**• Bachelor of Science**

*Four-year honours*
Available in: biology, chemistry, chemistry with energy and fuel science, computer science (options in numerical analysis, theoretical, business, and hardware), geology, mathematics, physics, physics with energy and fuel science.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**Social Sciences and Related Courses**

**• Bachelor of Administration**

*Three years*
Majors are available in accounting, management systems, marketing, personnel/industrial relations.

*Admission requirements*
Satisfactory completion of an OSSHGD or OSSD, including six OACs, or equivalent, with a minimum overall average of 60%. Applicants must include one Grade 13/OAC in English in their program. Applicants who have not completed a Grade 13/OAC mathematics course or equivalent will be required to take a mathematics pretest. If basic mathematics skills are deemed to be deficient, a student will be required to take mathematics 1010.

**• Bachelor of Arts**

*Three-year general*
Available in: anthropology, anthropology (Native studies), anthropology (boreal studies), economics, geography, political studies, psychology, religious studies, sociology.

**• Bachelor of Arts**

*Four-year honours*
Available in: anthropology, economics, economics (industrial manpower studies), geography, history, political studies, psychology, sociology, social work.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Commerce**
*Four-year honours*

*Admission requirements*
Satisfactory completion of an OSSHGD or OSSD, including six OACs or equivalent, with a minimum overall average of 60%. Applicants must include Grade 13/OAC English, calculus and algebra/algebra and geometry in their program. (Note: the school may consider functions and relations, mathematics of finance, or finite mathematics as a substitute for either calculus or algebra/algebra and geometry.)

**• Bachelor of Science**

*Three-year general/four-year honours*
Available in: geography, psychology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**Residence Fees**
Approximate 1986-87 costs, with meals
Single room $3 188
Double room $3 030

**Tuition Fees 1986-87**

*Degree programs*
Canadian citizens or landed immigrants
A student activity fee of $107 should be added to all of the following fees.
Arts (including concurrent education and make-up year) $1 262
Arts (geography/Honours Bachelor of Outdoor Recreation) $1 262
Applied science $1 371
Administration, commerce, social work $1 262
Degree engineering (years 4 and 5 only) $1 262
Degree forestry $1 262
Education degree, B.Ed. (one-year program) $1 262
Nursing $1 262
Outdoor recreation $1 262
Physical and health education $1 262
Science (including concurrent education, medical laboratory science, and make-up years) $1 262
Science (natural science/Honours Bachelor of Outdoor Recreation) $1 262

*Diploma programs*
Canadian citizens or landed immigrants
Engineering technology, library technology $759
Forestry technology $759
Graduate business diploma (postdiploma) $1 262

**Further Information**
*Inquiries about admission requirements should be directed to*
Mrs. Gwen Wojda
Assistant Registrar, Admissions
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8527

*Inquiries about admission requirements and secondary school liaison should be directed to*
Mr. Jeff Howie, Mr. Ken Morden
Secondary School Liaison Officers
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8749, 343-8674
or toll free 1-800-465-3959

*Information and application forms for student awards may be obtained from*
Ms. J. Lawson
Director of Student Services
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8149

# Laurentian University

## Sudbury

**President: John S. Daniel**

**Enrolment 1986-87 (Sudbury Campus)**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 3 397 | 100 |
| Part-time | 1 941 | 142 |

**Faculties, Schools, and Institutes**
Faculty of Humanities
Faculty of Professional Schools
Faculty of Science and Engineering
Faculty of Social Sciences
School of Commerce and Administration
School of Education
School of Engineering
School of Graduate Studies
School of Nursing
School of Human Movement
School of Social Work
School of Translators and Interpreters

**General Admission Requirements**
Minimum of three subjects – six credits, with a 60% average at the Ontario Grade 13 level or in Ontario Academic Courses (OACs) or the equivalent. At least four of the six credits must be from languages, mathematics, sciences, or social sciences. Applicants planning to concentrate in mathematics must have two credits in mathematics, of which one must be calculus. Applicants to the arts program in computer science must have two mathematics courses. Applicants to a science program in computer science must have at least two credits in mathematics, of which one must be calculus. The university also requires a complete academic report for the two final years of secondary school and a recommendation by the secondary school last attended regarding fitness for university studies. Petitions for variance from these requirements may be initiated with the Admissions Office.

*Bachelor of Arts*
The Grade 13 requirement for admission to a Bachelor of Arts program is either English or French. A Bachelor of Arts degree may be obtained at either the general or specialized level. General programs include 15 full courses over a three-year period (normally five courses each year). Concentrations (six full courses in one subject taken over three years) available are listed under specific subject areas. Specialized programs include 20 full courses (over a four-year period), 10 of which will be upper-year level courses in the subject of specialization. As a condition of graduation, all students newly admitted to arts programs must meet a requirement of competence in the official language (English or French) with which they most identify.

*Bachelor of Science*
Grade 13 requirements for admission into a Bachelor of Science program include: calculus, chemistry, and two of biology, physics, geology, and mathematics other than calculus. (Recommended subjects: chemistry, physics, two mathematics, and one other science credit.)* General

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*Petitions for variance may be initiated with the Admissions Office.

and specialized degrees may be obtained in the same manner as a Bachelor of Arts degree. Concentrations available are listed under specific subject areas.

**Early Admission**
Early admission will be granted to students who have, in the opinion of the Admissions Committee for Laurentian, Algoma, or Nipissing, a satisfactory academic background. This acceptance is conditional upon the satisfactory completion of Grade 13.

**Ontario Grade 12**
The university and colleges will consider the applications of exceptional Grade 12 students with an "A" average throughout secondary school. A personal biography, as well as a positive recommendation from the guidance counsellor and/or principal, will be required. Before being recommended for admission, the candidate will be interviewed.

**Concurrent Grade 13 Students**
Subject to certain conditions, Grade 13 students may take university courses concurrently with their secondary school program, but credit will not be granted for passed courses until the students meet the normal admission requirements. Such students may enrol for only one session at a time as special students, and their records will be reviewed at the end of each session. These students must have obtained at least a "B" standing (depending on course load) and have the support of their guidance counsellor and/or school principal.

**Mature Students**
Persons 21 years of age or older as of October 1 of the current academic year, who have been away from formal education for a period of at least one year and who lack the formal entrance requirements, but whose previous school performance and recent work record suggest a strong possibility of academic success, may qualify for admission as mature students to the B.A., B.S.W., and B.Com. programs (or others with special permission). Candidates who have completed Ontario Grade 12, who have been in the work force for at least two years, and who have demonstrated a suitability for university study may also qualify without satisfying the age requirement.

Candidates who have completed three Grade 13 credits with a 60% average may also qualify if they are 21 years of age as of October 1 of the current academic year and if they have been away from formal education for at least one year, or if they have not reached the age of 21 by October 1 but have been away from formal education for at least two years.

### Agricultural and Biological Sciences

**• Bachelor of Science**

*Three-year general*
Available in: biology.

**• Bachelor of Science**

*Four-year specialized*
Available in: biochemistry, biology, kinesiology.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

### Education/Physical Education/Recreation

**• Bachelor of Education**
The School of Education offers the following: a three-year program leading to a Bachelor of Arts with a concentration in education, after which a fourth year may be taken to qualify for a Bachelor of Education degree and an Ontario Teacher's Certificate (BEO); a one-year program leading to a Bachelor of Education degree and a BEO for candidates who have a baccalaureate other than a Bachelor of Arts with a concentration in education.

*Admission requirements*
Français, and English or anglais.

**• Honours Bachelor of Physical and Health Education**

*Four-year honours*
A four-year program with a curriculum designed to provide a sound background in physical and health education in society, in the context of educational, leisure, and competitive situations.

**• Honours B.P.H.E. (Health Promotion) Program**

*Four years*
To provide leadership skills required for the promotion of health and physically active lifestyle with focus on counselling in physical fitness, stress management, nutritional awareness, environmental sensitivity, and health-oriented self-discipline.

**• Honours B.P.H.E.(Adventure Leadership) Program**

*Four years*
The outdoor adventure leadership program is designed to assist the individual in developing, through experience and the acquisition of technical skill and theoretical knowledge, the personal qualities necessary to provide informed leadership in the recreational and educational uses of the outdoors. The experience and knowledge provided through these program situations are designed to foster personal growth of the individual.

*Admission requirements*
English or français and at least one level V or OAC course chosen from mathematics, chemistry, physics, biology, geology, or computer science.

**• Honours B.Sc. in Kinesiology Program**

*Four years*
The program is designed for those students who are interested in a scientifically oriented approach to the study of human movement.

*Admission requirements: see General Admission Requirements,* "Bachelor of Science".

### Engineering and Applied Sciences

**• Bachelor of Engineering**
The School of Engineering offers four-year Bachelor of Engineering programs in mining engineering and extractive metallurgical engineering, and the first two years of chemical, civil, and mechanical engineering.

*Admission requirements*
Mathematics (calculus), mathematics (functions and relations), mathematics (algebra),[*] chemistry, physics.

### Fine and Applied Arts

**• Bachelor of Arts**

*Three-year general*
Available in: music, theatre arts.

*Four-year specialized*
Available in: music.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts". Candidates for admission into the music concentration program should have successfully completed at least Grade 2 rudiments (R.C.M.T.) or equivalent, and at least Grade 8 (R.C.M.T.) or equivalent in the performance area they intend to pursue at Laurentian.

### General Arts and Science

**• Bachelor of Liberal Science**
This program requires 15 courses, including general science, non-science, and elective credits. Considerable flexibility exists so that various emphases or themes can be incorporated in programs to accommodate different student needs.

*Admission requirements*
English or français.

### Health Professions and Medical Sciences

**• Bachelor of Science in Nursing**
A four-year program preparing graduates to practise in all health care facilities, including hospitals, clinics, public health agencies, and family practice units, and to practise as nurses in industry. As well, graduates are able to participate in research and may go on to study for master's and doctoral degrees.

*Admission requirements*
English or français, chemistry, and biology (minimum average of 70% required).

**• Bachelor of Science in Behavioural Neuroscience**
A four-year specialized program for a broad knowledge in both behavioural and biochemical sciences.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

### Humanities and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: English, français, French, French language and civilization, German, Italian, linguistics, philosophy, religious studies, Russian, Spanish.

**• Bachelor of Arts**

*Four-year specialized*
Available in: English, français, philosophy, religious studies.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

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[*] Petitions for variance may be initiated with the Admissions Office.

**• Bachelor of Science in Language**
A four-year program primarily concerned with training for posts in Canada; students will be equipped for positions involving the use of languages with the public service, industry and commerce, bilingual agencies and business, and the mass media.

*Admission requirements*
English (minimum average 66%) and French or français (minimum average 66%).

**Mathematical and Physical Sciences**

**• Bachelor of Arts**

*Three-year general*
Available in: mathematics, computer science.

**• Bachelor of Arts**

*Four-year specialized*
Available in: computer science, earth science.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Science**

*Three-year general*
Available in: applied physics, chemistry, computer science, geology, mathematics.

**• Bachelor of Science**

*Four-year specialized*
Available in: applied physics, chemistry, computer science, geology, kinesiology, mathematics, mining geology.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

**Social Sciences and Related Courses**

**• Bachelor of Arts**

*Three-year general*
Available in: anthropology, Canadian studies (interdisciplinary program), economics, education, geography, history, law and justice, Native studies, political science, psychology, sociology.

**• Bachelor of Arts**

*Four-year specialized*
Available in: economics, geography, history, law and justice, political science, psychology, sociology.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Commerce**

*Four-year honours*
Four years of study, 20 full courses. A new program, a Bachelor of Commerce in co-operative administration in French, has been introduced. An honours Bachelor of Commerce in sports administration is an interdisciplinary program offered jointly by the School of Commerce and Administration and the School of Human Movement.

*Admission requirements**
English or français and two Grade 13 mathematics courses.

**• Bachelor of Social Work**

*Four-year honours*
A four-year program with the study of social work beginning in the first year.

*Admission requirements*
Grade 13 English or French.

**• Université canadienne en France**
The Université canadienne en France program, introduced in 1987, is run by Laurentian University in co-operation with Blyth and Company.

The program is designed to enable English-speaking and French-speaking students from all provinces to spend a year in southern France while continuing to earn Canadian university credit. An integral part of the Ontario university system, the Université canadienne en France program offers a unique opportunity for students to complete a year of university credit while developing bilingual skills, broadening themselves through travel, and acquiring a heightened appreciation of the diversity of Canada itself.

Care has been taken to ensure that Canada's languages and regions are represented in the program, with a student body of over 200 anglophone and francophone undergraduates from all provinces. The one-year program of courses in language, literature, and humanities is specially selected from the first three years of an Ontario university curriculum.

The intensive curriculum in language and civilization, which highlights a special theme each year (the twentieth-century world, the renaissance, the Mediterranean, the Enlightenment), is designed to give Canada's future leaders a better understanding of our world. Laurentian credits earned in the Université canadienne en France program are transferable to other universities. The teaching staff will be made up of faculty from Laurentian and other Canadian universities.

Various types of student accommodation are available, including residences on the campus, which is superbly located on the Côte d'Azur between Nice and Monaco.

*Admission Requirements*
A student must have completed a minimum of one full year of study (minimum of 24 credits) at a Canadian university or have successfully completed the DEC in Quebec. Anglophone, francophone, and bilingual students are eligible to apply for admission. Students must be in good academic standing at their home university and obtain a letter of permission or equivalent once admitted.

*Fees 1987-1988*
*Academic* (fees applicable to Canadian citizens and exempt visa students) tuition fees and ancillary fees (includes tuition, athletic facilities, life/accident insurance, student association fees): $1 503

*Travel and accommodation* (includes return air fare, residence accommodation, transfers, excursions: $5 192

*Total fees:* $6 695

**Residence 1987-88**
Single room $1 700 – $1 780
Double room $1 418 – $1 530
Apartments for married students $305 per month.
Meals are available on a cash basis or a meal card may be purchased.

**Tuition Fees 1987-88**
(including incidental fees)
Canadian citizens and exempt visa students
Full-time students:
All programs except engineering $1 472.50
Engineering $1 584.50

**Further Information**
*Information and application forms for student awards may be obtained from*
Denis Lauzon
Director of Student Affairs/Awards
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151, ext. 3053
1-800-461-4030 (toll-free)

*Inquiries about admission requirements and requests for more general information should be directed to*
Matthew Brennan
Assistant Registrar, Admissions
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3915
1-800-461-4030 (toll-free)

*Requests for general information should be directed to*
Chris Culliford, Manager Liaison Services, or
Lorraine Bédard, Liaison Officer
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3100
1-800-461-4030 (toll-free)

## Algoma University College Saulte Ste. Marie

**President of the College: Dr. Patrick W. Wesley**
Algoma University College is a non-sectarian liberal arts college affiliated with Laurentian University. Algoma provides university-level instruction for degrees, professional development, and general interest. A first- and second-year commerce and social work and a first-year science are offered, in addition to full general and some specialized B.A. degrees. Students may apply efforts to any of twelve areas of concentration including economics, music, and geography. Students who successfully complete program requirements at Algoma are awarded degrees by Laurentian University. Algoma has also hosted, in co-operation with other universities, master's programs in education.

The Algoma Conservatory of Music, established in 1971 and located on the campus, offers private lessons in piano, organ, brass, strings, guitar, flute, speech arts, voice, and theoretical subjects.

Instruction in outlying communities supplements the regular fall/winter academic sessions.

The library is open to all persons in the community and contains 78 000 volumes, 10 000 government-documents titles, and 558 periodical subscriptions. Reference services include on-line biographical searching, group orientation tours, and individual assistance.

In the intimate academic atmosphere, students of all ages enjoy the direct personal contact with their instructors that only a small university college can provide.

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*Petitions for variance may be initiated with the Admissions Office.

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 270 |
| Part-time | 486 |

**Admission Requirements**
Same as for Laurentian University, Sudbury.

**Degree Programs Offered**
Degree programs require the completion of the equivalent of 15 full courses. For full-time students this normally requires three years of study. Specialized programs require the completion of the equivalent of 20 full courses. For full-time students this normally requires four years of study.

**Bachelor of Arts general program (three years)**
Concentrations (majors) are available in: accounting, computer science, economics, English, French, geography, history, Italian, mathematics, music, philosophy, political science, psychology, sociology.

In addition, courses are available in: anthropology, chemistry, commerce, film, geology, Native studies, law and justice, physics, religious studies, social welfare, Spanish, theatre, visual arts.

**Partial Degree Programs Offered**

**• Bachelor of Science general program**
(Laurentian University, Sudbury)
The first year of the program is available at Algoma University College. Students must transfer after one year to continue in a science program.

**• Bachelor of Arts specialized program (four years)**
(Laurentian University, Sudbury)
An expanding range of programs leading to the Bachelor of Arts degree (specialized program) is available. Part-time students may complete the degree requirements to the end of second or third year in most subject areas where the Bachelor of Arts general program is available. Full-time students may complete all degree requirements in English, and to the end of the second or third year in most other areas.
Students may transfer to Laurentian University to complete these programs.

**• Bachelor of Science specialized program**
(Laurentian University, Sudbury)
The first year of this program is available at Algoma University College. It is the same as that of the corresponding general program. Students with good grades in a first-year program at Algoma may apply for transfer to a specialized program at Laurentian or any other university.

**• Honours Bachelor of Commerce**
(Laurentian University, Sudbury)
The courses required for the first two years of the program are available at Algoma. Students with good grades may apply for admission to the third year of the Honours Bachelor of Commerce program at Laurentian or any other university.

**• Honours Bachelor of Social Work**
(Laurentian University, Sudbury)
The courses required for the first two years of the program are available at Algoma. Students with good grades may apply for admission to the third year of the Honours Bachelor of Social Work program at Laurentian or any other university.

**• Part-time Studies**
Students pursuing degrees through part-time studies have the same opportunities for the same courses and programs and are subject to the same course and program requirements as full-time students. There are minor differences in admissions policy and registration procedures. Contact the Office of the Registrar for further information.

**Scholarships and Financial Assistance**
The college offers entrance and continuing scholarships for full-time students. The Ontario Student Assistance Program is administered through the Office of the Registrar.

**Tuition Fees 1986-87**
(including incidental fees)
All programs $1 417.50

**Further Information**
*Information regarding entrance requirements and academic programs may be obtained from*
Office of the Registrar
Algoma University College
1520 Queen St. E.
Sault Ste. Marie, Ontario P6A 2G4
Telephone (705) 949-2301

*Information on other aspects of Algoma University College and its services may be obtained from*
Ms. Marianne Perry-Butcher
Director of Student Services
Algoma University College
1520 Queen St. E.
Sault Ste. Marie, Ontario P6A 2G4
Telephone (705) 949-2301

## Nipissing University College North Bay

**President: Anthony Blackbourn**

**Enrolment 1986-87**

| | |
|---|---|
| Full-time | 540 |
| Part-time | 1 900 |

**Faculties**
Faculty of Arts
Faculty of Education

**General Admission Requirements**
Same as for Laurentian University, Sudbury.

**Degree Programs Offered**

**• Bachelor of Arts**
Nipissing offers a four-year Bachelor of Arts specialized program in English, environmental geography, geography, and psychology; a combined specialization in sociology; three years of the four-year Bachelor of Arts specialized program in history; and a three-year Bachelor of Arts general program for full-time and part-time students. The general consists of 15 courses, including six in the area of concentration. No more than seven first-year courses may be contained in the full program. Concentrations are offered in English, environmental geography, geography, history, office management studies, psychology, social welfare, and sociology. Other areas in which electives are offered are: anthropology, biology, chemistry, classics, commerce, computer science, economics, environmental science, fine arts/music, fine arts/visual arts, français, French, geology, mathematics, philosophy, physics, and political science.

*Admission requirements*
English or français, except for office management studies, which requires English or français, two credits in mathematics, and basic facility in keyboarding (typing). Students who do not meet the keyboarding or mathematics requirements will be considered on an individual basis.

**• Bachelor of Education**
The Faculty of Education at Nipissing offers a one-year program leading to a Bachelor of Education degree. This program meets the Ministry of Education requirements for teacher certification.

*Admission requirements*
An approved university degree.

**• Transfer Programs Offered**
Nipissing offers the first year of the Bachelor of Science program and the first two years of the Bachelor of Social Work and the Bachelor of Commerce programs. Students in these transfer programs may complete one or two years at Nipissing and then transfer to Laurentian or another university to complete the degree.

*Admission requirements*
Bachelor of Science – calculus, chemistry, and two of biology, geology, physics, or mathematics.
Bachelor of Social Work – English or français.
Bachelor of Commerce – English or français, and two credits in mathematics.

**Residence**
The student residence accommodates 300 in 50 townhouse-style apartments. Each furnished townhouse accommodates six people. Students have their own bedroom with a built-in study area. The fully equipped kitchen, dining room, and living room are shared.

Residence fees 1987-88: arts, commerce, science, social work – $1 472; education – $1 518.

**Tuition Fees 1987-88**
(including incidental fees)
Full-time arts, commerce, science, and social work $1 362.85 Full-time education $1 374

**Further Information**
*Information regarding entrance requirements, academic status and scholarships, and accomodation may be obtained from*
The Registrar's Office
Nipissing University College
P.O. Box 5002
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450
or 1-800-461-1673

*Inquiries about financial assistance should be directed to*
The Financial Aid Officer
Nipissing University College
P.O. Box 5002
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450
or 1-800-461-1673

# McMaster University

## Hamilton

**President: Dr. Alvin A. Lee**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 9 544 | 1 123 |
| Part-time | 3 145 | 707 |

**Academic Units**
Faculty of Business
Faculty of Engineering
Faculty of Health Sciences
Faculty of Humanities
Faculty of Science
Faculty of Social Sciences
Arts and Science Program
McMaster Divinity College (affiliated)
Centre for Continuing Education
School of Graduate Studies
School of Medicine
School of Nursing
School of Physical Education and Athletics
School of Social Work

**General Admission Requirements**
*Grade 13 requirements*
Applicants for admission must have standing satisfactory to the university in the appropriate area requirements, together with any additional work sufficient to qualify the applicant for the OSSHGD.

All potential applicants are strongly advised to take a senior high school course in English designed to improve their basic reading and writing abilities. Applicants to arts and science I (special program), business I, humanities I, music I, nursing I, physical education I, and social sciences I must have Grade 13 English for admission. Applicants to engineering I and natural sciences I are strongly urged to include a senior high school English course in their program of study.

**Grade 13 Requirements for Specific Programs of Study**
McMaster is aware of the variety of experimental programs offered in Ontario secondary schools and welcomes applicants from these programs. Although it may not be possible for all applicants to meet the exact subject requirements outlined below, students are urged to write the Associate Registrar (Admissions), who will ensure that their case is given careful consideration.

Humanities I, natural sciences I, and social sciences I are broad fields of study in first year that lead to a variety of honours and pass programs in the second year. Arts and science I, business I, engineering I, music I, nursing I, and physical education I are the first-year programs leading to the Bachelor of Arts and Science, Bachelor of Commerce/Bachelor of Commerce (Honours)/Bachelor of Commerce and Arts (Economics), Bachelor of Engineering, Bachelor of Engineering and Management, Bachelor of Music, Bachelor of Science in Nursing, and Bachelor of Physical Education, respectively.

Note: Arts and science I, business I, engineering I, music I (general and performance), natural science I, physical education I, and nursing I have limited enrolment. Admission to these programs is by selection; therefore, meeting the minimum requirements will not guarantee admission.

**Area Requirements**
*Humanities I*
1. Grade 13 English or français with a grade of at least 65%.
2. Additional Grade 13 work with a minimum overall weighted average of 70%. Four of the additional five Grade 13 credits must be from the following humanities subjects: art, drama, English, français, other languages, history, and music; or from the following non-humanities core courses: biology, chemistry, geography, mathematics, and physics. (Students may substitute the OACs in algebra and geometry, calculus, and finite mathematics within Group 2).
3. Preference will be given to those candidates who have selected at least one credit from the humanities subjects, in addition to English or français.

Students intending to take art 1F6 must submit a portfolio by April, to the Chairman of the Department of Art and Art History, to show their interest and ability.

Students intending to take music I, general or performance, must successfully complete a music audition/examination.

*Natural sciences I*
Applicants from an Ontario secondary school with a weighted average of at least 75% will be given admission priority. The following minimum requirements must be met:
1. Grade 13 calculus;
2. Grade 13 physics or a second Grade 13 mathematics;
3. one Grade 13 credit in biology, chemistry, or another mathematics;
4. a weighted average acceptable to the faculty in calculus and the two additional credits specified above (in recent years an average of at least 70% has been required);
5. additional Grade 13 work to qualify for an OSSHGD.

It is also strongly recommended that applicants present at least one Grade 13 credit in biology, chemistry, or physics when meeting the above requirements. Grade 13 algebra and/or functions and relations is also desirable. Students presenting OACs should note the following: the OAC in calculus may be substituted for Grade 13 calculus in Group 1; algebra and geometry may be substituted for the mathematics in either Group 2 or 3; finite mathematics will be accepted for admission to science within group 5 above, but will not be included in the mathematics/science average as described in point 4 above. It is probable that OACs in biology, chemistry, and physics will be viewed as direct equivalents to the Grade 13 courses. Changes to the admission requirements will be publicized at least one year before implementation.

*Nursing I*
Admission is by selection. Possession of the minimum requirements does not guarantee admission. Normally there are ten times as many applicants as there are places in the programs. Only those applicants who offer high academic standing are selected.

Required:
1. Grade 12 mathematics (advanced level).
2. One Grade 13 credit in chemistry and in English.
3. One Grade 13 credit in mathematics or biology or physics.
4. Additional Grade 13 work (within the two years before application) to qualify for an OSSHGD. At least two of the additional Grade 13 credits must be selected from français, other languages, calculus, functions and relations, algebra, biology, physics, geography, history, and music.

OACs may be substituted in place of the Grade 13 courses above. Algebra and geometry, calculus, and finite mathematics will be accepted in Group 3 above.

Health requirements for admission: Before registration, students must file information pertaining to their state of health and immunization with the university. Detailed instructions will be provided upon acceptance into the program.

Mature students and diploma Registered Nurses are invited to write to the Assistant Registrar (Health Sciences).

*Social sciences I*
Admission is by selection, and an overall average of at least 70% (to be computed on the basis of the six highest marks achieved in Grade 13 subjects) will probably be required. Applicants' Grade 13 program must include: one Grade 13 credit in English; one Grade 13 credit in algebra, or calculus, or functions and relations; and additional Grade 13 work to qualify for an OSSHGD. OACs in algebra and geometry, calculus, or finite mathematics will be accepted in lieu of the Grade 13 mathematics credit.

Applicants intending to take physical education I must complete the above requirements. Grade 13 credit in one of biology, chemistry, or physics is strongly recommended.

Candidates without these qualifications, who nevertheless provide evidence of equivalent promise, will be considered.

*Engineering I*
Enrolment in engineering I is limited, and admission is by selection. The minimum requirements are:
1. an overall weighted average of at least 75% in the six credits offered for the OSSHGD, including:
2. a weighted average of at least 75% in the following five Grade 13 credits: calculus, algebra, functions and relations, physics, and chemistry.

The faculty strongly recommends that potential applicants take a senior high school course in English designed to improve their basic reading and writing abilities.

As a general policy, applicants from Ontario colleges of applied arts and technology who have achieved a first-class honours standing in the last two years of a three-year technology program will be considered for admission to the second level of a relevant engineering program.

Students presenting OACs should note the following: Six OACs with an average of at least 75% must be presented, and these must include English, calculus, algebra and geometry, chemistry, and physics with an average of at least 75% in these five subjects.

For applicants presenting a mixture of Grade 13 subjects and OACs, OACs in calculus, chemistry, and physics may be substituted for the Grade 13 subjects. An applicant presenting algebra and geometry must also present English; these two courses replace algebra, and functions and relations.

*Business I*
Enrolment in business I is limited, and admission is by selection. The minimum overall average of 70% will not guarantee admission. An average of approximately 75% will probably be required. The following are the minimum requirements for consideration:

1. one Grade 13 credit in algebra, calculus, or relations and functions (preferably calculus);
2. one Grade 13 credit in English;
3. at least three additional Grade 13 credits from among accounting, algebra, biology, chemistry, calculus, economics, English, français, functions and relations, geography, history, music, physics, and other languages;
4. additional Grade 13 work to qualify for an OSSHGD.

OACs may be substituted in place of the Grade 13 courses above. The mathematics requirement (Group 1) may be fulfilled preferably by calculus or alternatively by algebra and geometry. In Group 3 of the 1987 requirements calculus, algebra and geometry, and finite mathematics are acceptable.

*Arts and Science I*
Enrolment in the arts and science program is limited, and admission is by selection. Candidates may be interviewed. Students applying from Ontario secondary schools must have:
1. One Grade 13 credit in English.
2. Grade 13 calculus.
3. Completion of additional Grade 13 work to qualify for the OSSHGD with a weighted average of at least 75%. In recent years all science students admitted to the arts and science program had a Grade 13 average of at least 80%. At least three of the additional Grade 13 credits must be selected from among English, français, other languages, relations and functions, algebra, biology, chemistry, physics, geography, history, and music.

Candidates without these qualifications who nevertheless provide evidence of unusual promise will also be considered. Students from colleges, other universities, and other provinces are invited to apply. Each case will be considered on its individual merits.

OACs may be substituted in place of the Grade 13 courses above. Finite mathematics, and algebra and geometry will be accepted within Group 3 of the requirements.

**Early Admission**
Early admission is based on interim marks and may be granted annually in June to an applicant who expects to acquire final standing later in the year. If granted early admission, the OSSHGD must be obtained, with the minimum Grade 13 admission average necessary for the chosen program.

**Admission From Grade 12 (Ontario)**
(This category is under review in light of changes in the secondary school curriculum.)

McMaster University invites applications from students who will have completed the requirements for an OSSGD and who have met the following conditions. Applicants must have successfully completed Grade 12 with an average of at least 80% and two Grade 13 credits appropriate to the year 1 program they wish to enter. These academic requirements must have been fulfilled by June of the year in which admission is sought, and within four years of the student first enrolling in secondary school. A comprehensive report from the student's secondary school is also required. Admission is by selection, and interviews may be held; therefore applicants should not assume that satisfying the above requirements guarantees admission.

*Admission with other qualifications*
Applicants who do not meet the above qualifications, or whose academic backgrounds vary from those described above, should contact the Associate Registrar (Admissions).

**Agricultural and Biological Sciences**

**•Bachelor of Science**

*Three-year general*
Available in: biology.

**•Bachelor of Science**

*Four-year honours*
Available in: biochemistry (general option), biochemistry (biotechnology and genetic engineering option), biochemistry and chemistry (combined), biology (general option), biology (biotechnology and genetic engineering option), biology and geology (combined), biology and philosophy (combined), biology and psychology-life sciences (combined), molecular biology and biotechnology.

**•Bachelor of Science**

*Four-year major*
Available in: biochemistry, biology.

*Admission requirements*
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

**Education/Physical Education/Recreation**

**•Bachelor of Physical Education**
*Four years*

*Admission requirements (physical education I)*
See *General Admission Requirements* and *Area Requirements*, "Social sciences I".

**•Education**
Continuing education for teachers is available. Programs lead to a master's (teaching)(M.A. or M.Sc.) degree.

**Engineering and Applied Sciences**

**•Bachelor of Engineering**

*Four years*
Available in: ceramic, chemical, civil engineering and engineering mechanics, computer, electrical, engineering physics, manufacturing, materials, mechanical, and metallurgical engineering.

*Five years*
Available in: civil engineering and computer systems.

**•Bachelor of Engineering and Management**

*Five years*
Available in combination with: chemical, civil, computer, electrical, engineering physics, and mechanical engineering.

*Admission requirements:*
See *General Admission Requirements* and *Area Requirements*, "Engineering I".

**•Bachelor of Science**

*Four-year honours*
Available in: applied chemistry, applied physics (general option), applied physics (health and radiation option), theoretical physics and applied mathematics.

*Admission requirements*
See *General Admission Requirements* and *Area Requirements*, "Natural sciences I".

**Fine and Applied Arts**

**•Bachelor of Arts**

*Three-year general/four-year honours*
Available in: art, art and art history, dramatic arts, music.

*Admission requirements*
See *General Admission Requirements* and *Area Requirements*, "Humanities I".

**•Bachelor of Music**

*Four-year honours*
Available in: history and theory of music, music and another subject (combined), music education, music performance.†

*Admission requirements (music I)*
See *General Admission Requirements* and *Area Requirements*, 'Humanities I". The audition requirement for programs other than the performance stream consists of the following:
1) demonstration of technique (approximately Grade 9 level of Royal Conservatory of Music, Toronto)
2) performance (approximately 20-minute duration) of two or three varied pieces of the candidate's choice, including at least one from the 20th century (required standard at least Grade 9);
3) ear tests appropriate to the Grade 9 performance level;
4) written examination on rudiments of theory (Grade 2 level);
5) interview.

The audition requirements for the music performance stream are:
1. demonstration of technique (approximately Grade 10 level of the Royal Conservatory of Music, Toronto);
2. performance (approximately 30 minutes' duration) of four or five varied pieces or movements of the candidate's choice, including at least one from the 20th century (required standard at least Grade 10 level);
3. ear test appropriate to the Grade 10 performance level;
4. written examination on rudiments of theory (Grade 2 level);
5. interview.

**General Arts and Science**

**•Bachelor of Arts and Science (special program)**
*Three-year and four-year honours*
The Arts and Science program provides for a rigorous study of methods of inquiry, with substantial specialization in a discipline or problem area through the use of electives. Combined honours programs are available in many disciplines from humanities and social sciences and some disciplines from sciences.

*Admission requirements (arts and science I)*
See *General Admission Requirements* and *Area Requirements*, "Arts and Science I".

**•Bachelor of Science – general**

*Three-year general*

*Admission requirements*
See *General Admission Requirements* and *Area Requirements*, "Natural science I".

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†Pending approval.

### • Bachelor of Arts – humanities interdisciplinary program

*Three-year general based on thematic studies in ancient studies, comparative literature, contemporary studies, or creative arts.*

*Admission requirements*
See *General Admission Requirements* and *Area Requirements,* "Humanities I".

## Health Professions and Medical Sciences

### • Bachelor of Health Sciences

Fourth-year level postprofessional degree program, available on both a full- and part-time basis. Available in: occupational therapy, physiotherapy.

*Admission requirements*
For admission to the degree program (fourth year), students must have successfully completed the three-year program in occupational therapy or physiotherapy at Mohawk College. To be eligible for consideration, graduates from these Mohawk programs should present:
1) a Mohawk diploma of occupational therapy or physiotherapy with the certificate from McMaster University;
2) official transcripts from Mohawk College;
3) a letter outlining the candidate's learning objectives (guidelines are available); and
4) all other transcripts from other postsecondary institutions attended.
A personal interview may be required.

Candidates with diplomas in occupational therapy and physiotherapy from other institutions are admitted to the degree program after successful completion of a preprogram phase. Candidates for admission should present:
1) a Diploma of Occupational Therapy and/or Physiotherapy;
2) official transcripts from a diploma-granting institution;
3) eligibility to practise in the jurisdiction that provided the professional training (professional training will be judged according to equivalency to the diploma component of the Mohawk/McMaster diploma program);
4) proof of Canadian citizenship or landed immigrant status;
5) a letter outlining the candidate's learning objectives;
6) an interview.

Enrolment in the Bachelor of Health Science program is limited; therefore, admission is by selection of applicants. Possession of the minimum requirements does not guarantee admission. Students who do not meet these requirements exactly, but who wish to be considered, should write to the Associate Registrar (Admissions).

### • Bachelor of Science in Nursing

*Four years; two years (for diploma Registered Nurses)*

*Admission requirements (nursing I)*
See *General Admission Requirements* and *Area Requirements,* "Nursing I". Candidates holding R.N. diplomas or having other qualifications should contact the Assistant Registrar (Health Sciences).

### • Doctor of Medicine

Three-year program leading to M.D. Open to those with at least three years of university and a minimum "B" average. Applicants with backgrounds that vary from these criteria should contact the Assistant Registrar (Health Sciences).

## Humanities and Related Courses

### • Bachelor of Arts

*Three-year general*
Available in: classical studies, English, French, Latin, philosophy, religious studies*.

### • Bachelor of Arts

*Four-year honours*
Available in: classical studies, comparative literature and literary theory†, English, French, German, Greek, Italian, Latin, modern languages and linguistics†, philosophy, philosophy and biology (combined), philosophy and mathematics (combined), religious studies*, Russian, Russian and political science (combined), Spanish. A student may also combine two humanities subjects or one humanities and one social science subject to make a combined honours program. Honours programs in German, Greek, Italian, Latin, Russian, and Spanish must be combined with another subject.

*Admission requirements*
For all programs except religious studies, see *General Admission Requirements* and *Area Requirements,* "Humanities I".

## Mathematical and Physical Sciences

### • Bachelor of Science

*Three-year general*
Available in: chemistry, computer science, geology, mathematics, physics, statistics.

### • Bachelor of Science

*Four-year honours*
Available in: biochemistry, biochemistry and chemistry (combined), chemistry, chemistry and biochemistry (combined), chemistry and geology (combined), chemistry and physics (combined), computer science, computer science and mathematics (combined), computer science and psychology (combined), computer science and statistics (combined), geology, geology and biology (combined), geology and geography (combined), geology and physics (combined), mathematics, materials science, physics, statistics, theoretical physics and applied mathematics (combined).

### • Bachelor of Science

*Four-year major*
Available in: chemistry, computer science, computer science and mathematics (combined), computer science and statistics (combined), geology, geology and physics (combined), materials science, mathematics, physics (general physics, and health and radiation physics options).

*Admission requirements*
See *General Admission Requirements* and *Area Requirements* , "Natural sciences I".

## Social Sciences and Related Courses

### • Bachelor of Arts

*Three-year general*
Available in: anthropology, classical studies**, economics, geography, gerontology combined with another subject†, history**, labour studies, political science, psychology, sociology.

### • Bachelor of Arts

*Four-year honours*
Available in: Anthropology, classical studies, economics, economics and computer science (combined), economics and geography (combined), economics and mathematics (combined), economics and political science (combined), geography, geography and geology (combined), gerontology combined with another subject†, history**, political science, psychology, sociology. In addition to taking the combined programs listed above, a student may also combine two social science courses or a social science and humanities subject to make other combined honours programs.

*Admission requirements*
For all programs except those listed with a **, see *General Admission Requirements* and *Area Requirements,* "Social sciences I".

### • Bachelor of Commerce

*Four-year, four-year honours, four-year honours and arts – economics, offering a wide range of course work in the following areas: accounting, business policy, finance, management science and information systems, marketing and international business, personnel and industrial relations.*

*Admission requirements*
See *General Admission Requirements* and *Area Requirements,* "Business I".

### • Bachelor of Science

*Three-year general*
Available in: geography, psychology.

### • Bachelor of Science

*Four-year honours*
Available in: geography, geography and geology (combined), psychology, psychology and biology-life sciences (combined).

*Admission requirements*
See *General Admission Requirements* and *Area Requirements,* "Natural sciences I".

### • Bachelor of Social Work/Bachelor of Arts

*Four years*

*Admission requirements*
Admission to the School of Social Work is contingent upon:
1) completion of any year I program including introductory courses in psychology and sociology. Courses selected in year I should be appropriate for the subject of concentration selected for the B.A. program in year II;
2) a university average of at least 6.0 or its equivalent in the year I program; and
3) evidence of personal suitability as evaluated by either one, or a combination, of written statements, interview, and tests. Enrolment in the B.A./B.S.W. program is limited.

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*For the purposes of McMaster University, this subject area falls under the Social Sciences heading. See *General Admission Requirements* and *Area Requirements,* "Social sciences I" for admission requirements.

†Pending approval.

** For the purposes of McMaster University, these courses fall under the Humanities heading (See *General Admission Requirements* and *Area Requirements,* "Humanities I" for admission requirements.

†Pending approval.

**Residence Fees 1987-88**
Room plus lunch and dinner five days a week $2 825
Room only (available only in apartment-style residences) $1 443
Meal plan only $1 382
Accommodation is available for 2 391 women and men. The rooms are provided with staple articles of furniture: tables, chairs, beds, mattresses, pillows, and all necessary bedding. Residence students are required to supply their own wash cloths and towels.

The services of the infirmary, staffed by qualified doctors and nurses, are available to all resident students.

**Tuition Fees 1987-88**
Fees below are for full-time level I students only. (Part-time fees are charged on a per-course unit basis. Contact the university directly for charges.) In addition to the tuition fees listed here, supplementary fees are also assessed, including fees for student organizations, athletics, student health services, and first issue of student photo-I.D. cards.
Engineering I $1 468
Medicine I $2 577
All other programs $1 349

**Tuition fees for students on student visas 1987-88**
Medicine I $11 010
Engineering I, Nursing I $7 340
All other programs $ 4 500

**Further Information**
*Information about admission requirements may be obtained from*
Associate Registrar (Admissions and Awards)
Room 120, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4796

*General information about the university may be obtained from*
Division of Student Liaison
Room 102, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone 525-9140 ext. 4787
Outside the Hamilton area, call (from Ontario, Quebec, and Atlantic Canada) 1-800-263-2150 (toll-free); (from Western Canada) (416) 525-9555 (collect).

*Information about undergraduate academic awards and scholarships may be obtained from*
Academic Awards Officer
Room 113, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4789

*Information and application forms for financial assistance may be obtained from*
Director of Student Financial Aid
Room 229, Divinity College
McMaster University
Hamilton, Ontario L8S 4K1
Telephone (416) 525-9140 ext. 4381

*Information about the medical program and nursing programs may be obtained from*
Assistant Registrar (Health Sciences)
Room 187, Health Sciences Centre
McMaster University
Hamilton, Ontario L8N 3X5
Telephone (416) 525-9140 ext. 2114

# University of Ottawa

## Ottawa

**Rector: Dr. Antoine D'Iorio**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 12 161 | 1 578 |
| Part-time | 7 064 | 1 751 |

**Faculties, Schools, and Institutes**
Faculty of Administration
Faculty of Arts
Faculty of Education
Faculty of Engineering
Faculty of Health Sciences – (School of Human Kinetics, School of Medicine, School of Nursing, Physiotherapy Program, Occupational Therapy Program)
Faculty of Law
Faculty of Science
Faculty of Social Sciences
School of Graduate Studies
Institute for International Development and Co-operation

**Federated University and Affiliated College**
Saint Paul's University, Ottawa

**General Admission Requirements**
*Bachelor of Arts*
Grade 13 requirements for admission to a Bachelor of Arts program include: six Grade 13 credits, including English or français, with an overall average of at least 65%.

*Bachelor of Science*
Grade 13 requirements for admission to a Bachelor of Science program include: six Grade 13 credits, including chemistry and physics plus, two credits from calculus, algebra, and functions and relations. All three mathematics, and both physics and chemistry, are recommended. A minimum average of 65% in science and all mathematics subjects, as well as an overall average of 70%, are required.

Note: an applicant presenting a credit in only chemistry or physics may be admitted. This applicant must take a make-up course during the first year.

*Bachelor of Applied Science*
Grade 13 requirements for admission to a Bachelor of Engineering program include: six Grade 13 credits, including chemistry and physics, plus two credits from calculus, algebra, and functions and relations. All three mathematics, and both physics and chemistry, are recommended. A minimum average of 65% in science and all mathematics subjects, as well as an overall average of 70%, are required.

**Admission from Ontario Grade 12**
*Faculty of Administration*
English – one credit, three other Grade 12 credits, and two Grade 13 credits from: functions and relations, calculus, or algebra (calculus is strongly recommended). An overall average of 85% on final marks is required. The Grade 12 candidate may be admitted to the first year of the Faculty of Administration. Enrolment is limited.

*Faculty of Arts*
English – one credit, and five other credits. An overall average of 85% on final marks. The Grade 12 candidate may be admitted to the first year of the Faculty of Arts. The student who wishes to be admitted to the Bachelor of Music program must also pass an audition and a written exam. Enrolment is limited.

*Faculty of Science and Engineering*
Pre-science year:
English – one credit, mathematics – one credit, science (physics 300 and chemistry 400) – one credit each, three other credits for a total of six credits at the Grade 12 level, an average of 65% in science-mathematics, and an overall average of 65%.

*Faculty of Social Sciences*
English – one credit, five other credits, and an overall average of 85% on final marks. (Specific requirements for economics: one Grade 13 credit in calculus.) The Grade 12 candidate may be admitted to the first year of the Faculty of Social Sciences. Enrolment is limited.

**Agricultural and Biological Sciences**

**• Bachelor of Science**

*Three-year general*
Available in: life sciences.

**• Bachelor of Science**

*Three-year major/four-year honours*
Available in: biochemistry, biochemistry (nutrition and dietetics), biology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**Education/Physical Education/Leisure Studies**

**• Bachelor of Education**
One - year program, leading to elementary or secondary school teaching.

*Admission requirements*
A recognized bachelor's degree.

**• Bachelor of Physical Education**
*Four-year honours*

*Admission requirements*
Minimum overall average of 70% in Grade 13, with one credit in English and five other credits. One math and one chemistry course recommended. Limited-enrolment program.

**• Bachelor of Science in Kinanthropology**
*Four-year honours*

*Admission requirements*
Minimum overall average of 70% in Grade 13, with one credit in English, chemistry, physics, and two mathematics (algebra, calculus, functions and relations).

*Note:* Applicants presenting only one credit in chemistry or physics and only one in mathematics may be admitted. These applicants must pass a make-up course in the missing subject(s) during the first year.

**• Bachelor of Social Sciences with Honours in Recreology**
*Four years*

*Admission requirements*
Minimum overall average of 65% in six Grade 13 credits.

### Engineering and Applied Sciences

**• Bachelor of Applied Science**

*Four years*
Available in: electrical, chemical, civil, and mechanical engineering.

**• Bachelor of Applied Science (Co-operative Program)**

*Four and one-half years*
Available in: electrical, chemical, civil, and mechanical engineering.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Science".

**• Bachelor of Applied Science (Engineering Management Program)**
*Five years*

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Science".

**• Bachelor of Science**

*Three-year general*
Available in: earth sciences.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Science".

### Fine and Applied Arts

**• Bachelor of Arts**

*Three-year concentration*
Available in: music, theatre, visual arts.

**• Bachelor of Arts**

*Four-year honours*
Available in: music, theatre, theory and history of art.

**• Bachelor of Fine Arts**

*Four-year honours*
Available in: photography, studio.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Arts".

**• Bachelor of Music**

*Four-year honours*
Available in: composition, education, musicology, performance, theory.

*Admission requirements*
An overall Grade 13 average of at least 60%, with one credit in English and five other credits. Candidates must also pass an audition and a written exam.

### Health Professions and Medical Sciences

**• Bachelor of Science in Nursing**
*Four-year honours*

*Admission requirements*
Grade 13 credits in English, biology, chemistry, and three other credits. Grade 12 mathematics is also required. An average of 65% is required in the science courses, with a minimum overall average of 75%. The candidate must provide proof of completion of a cardiopulmonary resuscitation (CPR) course. Limited-enrolment program. Physiotherapy and occupational therapy programs: chemistry, biology, physics, one mathematics, and French *or* English; enrolment is limited to 20 in each program; the student must be fluently bilingual to be admitted to either program; some of the courses will be offered in only one of the two official languages; minimum average of 75% required.

**• Doctor of Medicine**
Candidates in the following categories are eligible to apply for admission to the first year of the four-year M.D. program:
a) students who have successfully completed the first two years of a B.Sc. program, provided it includes at least one year of physics, one year of general and inorganic chemistry, one year of general biology or zoology, and one year of organic chemistry;
b) students of other universities who have completed studies equivalent to those listed in (a), provided such studies comply with the regulations of the College of Physicians and Surgeons of Ontario.

### Humanities and Related Courses

**• Bachelor of Arts**

*Three-year concentration*
Available in: Canadian studies, classical art and archeology, classical studies, communication, criminology, economics, English, geography, German, history, Italian, langue française, lettres françaises, linguistics, mathematics, mediaeval studies, music, philosophy, political science, psychology, public policy and public management, religious studies, Slavic studies, sociology, Spanish, theatre, visual arts, women's studies.

**• Bachelor of Arts**

*Four-year honours*
Available in: classical studies, communication, English, geography, history, lettres françaises, linguistics, mathematics, music, philosophy, religious studies, Slavic studies, Spanish, theatre, theory and history of art, translation.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Arts".

### Mathematical and Physical Sciences

**• Bachelor of Arts**

*Three-year general/four-year honours*
Available in: mathematics.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Arts".

**• Bachelor of Science**

*Three-year general*
Available in: physical sciences.

**• Bachelor of Science**

*Three-year major/four-year honours*
Available in: chemistry, computer science, geology, geology-physics, mathematics, mathematics – science, physics, physics and mathematics (combined).

*Co-operative programs*
Available in: mathematics-sciences (five years), computer sciences (four years).

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Science". The computer science program has limited enrolment.

### Social Sciences and Related Courses

**• Bachelor of Administration**
*Three years*

**• Bachelor of Commerce**

*Four-year honours*
Specializations available in: accounting, management, and information systems. Majors available in: finance, human resources management, management science, marketing, public policy and public management.

*Co-operative programs (four years)*
Available in: accounting, management information systems.

*Admission requirements*
Grade 13, with one credit in English, two credits from functions and relations, calculus, or algebra, and three other credits. Minimum overall average of 70%. Limited-enrolment program.

Note: The B.Adm. and B.Com. programs are given by the Faculty of Administration.

**• Bachelor of Arts**

*Three-year concentration*
Available in: Canadian studies, classical art and archaeology, classical studies, geography, history, medieval studies, Slavic studies, women's studies.

**• Bachelor of Arts**

*Four-year honours*
Available in: classical studies, geography, history, Slavic studies.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Arts".

**• Bachelor of Arts in Psychology**

*Three-year concentration/four-year honours*
Given through the Faculty of Social Sciences.

*Admission requirements*
One credit in English, and five other credits. Mir imum overall average of 70%. Limited-enrolmer program.

**• Bachelor of Laws**
(Common Law section of the Faculty of Law)
Three-year program following a minimum of tw years of a recognized bachelor's program beyond Ontario Grade 13.

**• Licence en Droit**
(Section de Droit civil de la Faculté de Droit)
Programme de trois ans après le baccalauréat ès arts ou l'obtention d'un diplôme jugé équivalent.

**• Bachelor of Laws – Licence en Droit (combined)**
A common content of Canadian law subjects makes it possible to combine both programs, enabling students to obtain both degrees in four years.

**• Bachelor of Social Sciences**

*Three years, with one or two concentrations*
Available in: Canadian studies, economics, political science, psychology, public policy and public management, sociology and criminology, women's studies.

**• Bachelor of Social Sciences**

*Four-year honours*
Available in: criminology, economics, political science, psychology, recreology, sociology.

*Admission requirements*
Minimum overall average of 65% in six Grade 13 credits. The student who wishes to study economics must present one credit in calculus and one of functions and relations or algebra. The student who wishes to study psychology must present a credit in English. Criminology and psychology have limited enrolment.

Note: The Faculty of Social Sciences offers a joint program with honours in criminology, economics, political science, recreology, sociology, and psychology and a concentration in one of the following disciplines: Canadian and Quebec politics, Canadian studies, classical art and archaeology, classical studies, communication, criminology, economics, English, geography, German, history, international and comparative politics, Italian, langue française, lettres françaises, linguistics, mathematics, medieval studies, music, philosophy, political science, political thought, psychology, public policy and public management, religious studies, Slavic studies, sociology, Spanish, theatre, visual arts, women's studies.

**Residence**
*Academic year 1987-88*
Single room $1 550
Double room $1 318
The student residences on campus are Marchand Hall (336 men and women), Stanton Hall (359 men and women), Leblanc Hall (113 men and women), and Thompson Hall (459 men and women).

**Scholarships and Financial Assistance**
Students in financial need may apply for assistance from a variety of sources. Government assistance is available to full-time students in the form of grants and/or loans and to part-time students as bursaries or loans.

For further information concerning government assistance see the introductory section *Financial Assistance for Students* and check with the university's Student Financial Aid Office, which will also have details on bursaries and scholarships offered by the university.

**Tuition Fees 1986-87**
(including incidental fees)
Medicine $1 655
Engineering $1 429
Science (pre-science year) $2 314
All other programs $1 324

**Further Information**
*Inquiries about undergraduate admission should be directed to*
Office of the Registrar
(Admissions)
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3928

*Information and application forms for student awards and loans may be obtained from*
Mr. Michel Leduc
Director
Student Financial Aid Office
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-2484

*For information about university programs, write to*
Paul Giroux
Liaison Officer
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3935

*Inquiries regarding campus visits for students should be directed to*
Campus Tours
Office of the Registrar
University of Ottawa
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3937

## Saint Paul University Ottawa

Saint Paul University is federated with the University of Ottawa. It offers programs in Theology (Certificate, B.Th., M.A.(Th.), Ph.D.(Th.)), Canon Law (B.C.L., M.C.L., Ph.D. (C.L.)), Pastoral Studies (M.A. in Past. St.), Mission Studies (Certificate, M.A. in Miss.) and, in French only, Animation (Certificate). All degrees and certificates are conferred jointly by the University of Ottawa and Saint Paul University.

*For further information, please contact*
The Registrar
Saint Paul University
223 Main St.
Ottawa, Ontario
Telephone (613) 236-1393

# Queen's University

## Kingston

**Principal: David C. Smith**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 10 673 | 1 552 |
| Part-time | 2 969 | 479 |

**Faculties and Schools**
Faculty of Arts and Science
School of Business
School of Physical and Health Education
Faculty of Applied Science
School of Nursing
School of Rehabilitation Therapy
Faculty of Medicine
Faculty of Law
Faculty of Education
School of Graduate Studies
Queen's Theological College
School of Urban and Regional Planning
School of Public Administration
School of Industrial Relations

**General Admission Requirements**
Applicants must satisfactorily complete the senior secondary school graduation diploma (or equivalent) as certified by the school. No student with an average of less than 60% will be considered for admission. Because of space limitations, preference will be given to students with the best qualifications.

Students, in planning their secondary school programs, should note that a number of courses taken in the first university year have secondary school prerequisites. Details may be found in the general information book, *Your Future at Queen's*. Generally, students continuing university work in the mathematics or natural sciences are expected to have Grade 13 or equivalent standing in those subjects.

Conditional offers of admission are made each year before the completion of the final high school year to students who have achieved satisfactory standing and are recommended by their school officials. Such conditional offers of admission will be withdrawn if a student fails to complete the final secondary school year satisfactorily. The details of standing required for admission are determined each year and vary among the faculties and schools.

*Bachelor of Arts*
A Bachelor of Arts degree may be obtained in either three years (general) or four years (honours). The general B.A. includes 15 courses over the three-year period, with a minor concentration of five courses in one subject area, plus supporting courses and electives. Minor concentrations for the general program are listed under specific subject areas.

The honours B.A. includes a minimum of 19 courses over the four-year period, arranged in one of the following patterns:
a) major concentration of 10 courses in one subject area, plus supporting courses and electives;
b) two medial concentrations of seven courses, each in two subject areas (one must be in the humanities or social sciences), plus supporting courses and electives;

c) a special field concentration of 14 courses in several different subjects organized around a particular period, culture, problem, or discipline area, plus electives. Concentrations for the honours program are listed under specific subject areas.

Admission to either the four-year honours B.A. or the three-year general B.A. is based on successful completion of a full year of academic work at the Grade 13 or OAC level, or equivalent as certified by the school. There are no Grade 13 or OAC subject requirements for admission into a Bachelor of Arts program, although students intending to take concentrations in languages, computing and information science, mathematics, statistics, or natural science should include appropriate prerequisites in their secondary school program. The list that includes admission requirements into the Bachelor of Science program (see the following section) is a guide to the prerequisites for minor or medial concentrations in computing and information science, mathematics, statistics, and natural science subjects.

Honours concentrations entirely in mathematics and the natural sciences lead to the degree of B.Sc. (Honours).

*Bachelor of Science*
A Bachelor of Science degree takes four years to complete and consists of a minimum of 20 courses arranged in one of the following patterns:

a) a major concentration of 10 courses designated by one department, plus supporting courses and electives; or

b) two seven-course medials in two related science subject areas, plus six electives. Combinations of medials are restricted to those specified in the calendar for the Faculty of Arts and Science; or

c) a highly specialized concentration of up to 18 courses involving intensive study in a given area specified by one or more departments, plus electives. Major concentrations and specialized concentrations are listed under specific subject areas. Fourteen course concentrations in the B.Sc. honours program are listed under the heading *Mathematical and Physical Sciences* , below.

Requirements for admission to the B.Sc. programs are as follows: as a minimum, applicants must present any three credits chosen from OAC algebra and geometry, calculus, chemistry, and physics. If the Grade 13 program is followed, three of algebra, functions and relations, calculus, chemistry, and physics are required. Please see the brochure *Your Future at Queen's* for recommended prerequisites for each science discipline.

Candidates lacking the recommended prerequisites must make up the deficiencies in first year. Applicants who are short prerequisite courses for B.Sc. programs may be required to enroll as B.A. students until these deficiencies have been overcome.

## Biological Sciences

### • Bachelor of Arts

*Three-year general (minor concentration)*
Available in: biochemistry, biology, life sciences.

### • Bachelor of Arts

*Four-year honours (medial concentration)*
Available in: a concentration in biology, plus a concentration in a subject area from the humanities or social sciences.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Arts".

### • Bachelor of Science

*Four-year honours (major concentration)*
Available in: biology.

### • Bachelor of Science

*Four-year honours (medial concentration)*
Available in: biology and chemistry, biology and geological sciences, biology and geography, biology and computing, information science, biology and mathematics, biology and statistics.

### • Bachelor of Science

*Four-year honours (subject of specialization)*
Available in: biochemistry, biology, life sciences.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Science".

## Education/Physical Education/Recreation

### • Bachelor of Education

The Faculty of Education offers programs leading to a Bachelor of Education or a Diploma in Technical Education. In most cases students qualify for the Ontario Teacher's Certificate, but a student can qualify for the degree without certification.

Continuing education for teachers is available and programs leading to a Master of Education degree may be taken on either a part- or full-time basis.

### • Bachelor of Education – Consecutive Programs

The Faculty of Education offers three one-year programs leading to a B.Ed. for graduates of a general or honours degree program. Upon completion, graduates will normally be recommended to the Ontario Ministry of Education for an Ontario Teacher's Certificate.

The three programs are: primary-junior for teachers of kindergarten to Grade 6, junior-intermediate for Grades 4 to 10, and intermediate-senior for Grades 7 to 13.

Students may complete a course leading to an additional qualification in English as a second language, French as a second language, reading, or special education.

Candidates complete a practicum that includes student teaching and community service. The eight weeks of student teaching take place in selected elementary and secondary schools in eastern and northern Ontario. The community service involves educationally related practical experience in the community.

*Technological studies program*
This program leads to the Ontario Teacher's Certificate and qualifies the holder to teach in the technical department of a secondary school in Ontario.

Applicants must have completed Ontario Grade 12 (or equivalent) plus five years of further education or at least two years' work experience.

*Non-certificate programs*
There is provision for candidates to complete a program leading to the B.Ed., which may not lead to the Ontario Teacher's Certificate. Candidates may wish practicum experience in areas that do not lead to this certificate, such as community colleges, art galleries, or community theatres.

Further information about any of the programs may be obtained from the Registrar, Faculty of Education, Queen's University, Kingston, Ontario K7L 3N6.

### • Faculty of Arts and Science/Faculty of Education – Concurrent Programs

The Faculty of Arts and Science and the Faculty of Education offer concurrent programs leading to the following degrees: B.A./B.Ed., B.A. (Honours)/B.Ed., B.Sc. (Honours)/B.Ed. The requirements for, and structure of, each of the arts and science degrees is described above.

During the first three years, students take 15 of the courses required for the arts and science degree, and complete approximately 30% of the requirements for the B.Ed. degree. Students working toward an honours degree in arts and science spend their fourth year entirely in arts and science, returning to the concurrent program for their fifth and final year.

In the fall term of the final year of the program, students take any courses needed to complete the requirements for the arts and science degree, and they also complete the remaining course requirements for the B.Ed. degree. During the winter term, students complete a four-month internship in selected schools.

*Admission requirements*
Applicants must satisfy the general admission requirements for Queen's, plus the specific admission requirements for the desired arts and science degree program and concentration. It is also recommended that students complete Grade 12 English and mathematics.

### • Bachelor of Physical and Health Education and Bachelor of Arts Program

*Combined program*
A four-year program consisting of 25½ courses in arts and physical and health education. Courses in biology, psychology, sociology, anatomy, and physiology set the basis for the specific theoretical and practical study of sport, fitness, health, and physical activity. Optional courses are available in arts, science, commerce, and physical education theory and practicum so that preparation for future careers is optimal. Upon successful completion of the program, students are granted a Bachelor of Arts degree and a Bachelor of Physical and Health Education degree.

*Admission requirements*
Grade 13 or the OSSD, including one credit in chemistry. Students are advised to include Grade 13 or OAC physical and health education if offered by their school.

## Engineering and Applied Sciences

### • Bachelor of Science – Engineering

A four-year engineering program offered by the Faculty of Applied Science leading to a Bachelo of Science. The first year is common to all engineering programs, with the student taking courses in mathematics, physics, chemistry, geology, engineering graphics, computer programming, and one elective course from the humanities, social sciences, or administrative studies.

Before beginning second year, the student must select one of the following 10 programs: chemical engineering, engineering chemistry, civil engineering, electrical engineering, geological engineering, mathematics and engineering, mechanical engineering, metallurgical engineering, mining engineering, or engineering physics.

*Admission requirements*
Completion of Grade 13 or the OSSD. The Grade 13 progam must include three credits in mathematics (functions and relations, calculus, algebra), one credit in chemistry, and one credit in physics. The OSSD must include OAC credits in calculus, algebra and geometry, chemistry, and physics. Admission is based on a comprehensive evaluation of the student rather than on academic record alone, and students are invited to submit any information, in addition to Queen's requirements, that they feel would be helpful in making admission decisions.

## Fine and Applied Arts

### • Bachelor of Arts

*Three-year general (minor concentration)*
Available in: art history, drama, film, music.

### • Bachelor of Arts

*Four-year honours (medial concentration)*
Available in: art history, drama, film, music.

### • Bachelor of Arts

*Four-year (major concentration)*
Available in: art history, drama, film, music.

*Admission requirements*
See *General Admission Requirements* , "Bachelor of Arts".

### • Bachelor of Fine Art

A four-year program offered by the Department of Art that maintains a balance of studio and academic studies. The program promotes a high level of awareness, understanding, and excellence in the study and practice of art, and high critical standards.

The curriculum consists of 20 courses: the equivalent of 10 courses in studio art, five in art history, and five electives. The studio courses include drawing, painting, sculpture, and printmaking, and they occupy a minimum of 18 hours each week.

Graduates of the Bachelor of Fine Art program may pursue careers as artists, secondary school teachers (provided they complete a fifth year at a faculty of education), teachers in postsecondary institutions, or as museum or gallery personnel.

*Admission requirements*
Grade 13, OSSD, or equivalent. Grade 13 or OAC art should be included where possible, but it is not mandatory. Assessment for admission rests on an interview and portfolio examination, as well as on academic achievement.

### • Bachelor of Music

A broad four-year course of study designed to meet the needs and interests of future professional musicians, with areas of specialization in performance, instrumental and choral music in education, history and literature of music, and theory and composition.

Students in all of these concentrations have the option of studying performance in individual lessons. In addition, all students participate in the work of the small and large ensembles of the Music Department. This program also includes a minimum of four and a maximum of six courses offered by other departments.

*Admission requirements*
Academic requirements: Grade 13 or the OSSD, possibly including Grade 13 or OAC music. Music requirements: The following Royal Conservatory of Music (Toronto) levels (or equivalents) are normal requirements:

Grade 9 piano, Grade 2 rudiments; *or*

Grade 8 organ, Grade 8 piano, and Grade 2 rudiments; *or*

Grade 8 standard orchestral or band instrument, or classical guitar, or voice, or free bass accordion; Grade 6 piano; and Grade 2 rudiments.

All applicants will be invited to appear for a personal audition, interview, and aural discrimination test. Auditions are normally held in March or April of each year, except where distance makes a personal visit unduly difficult.

Applicants who do not have the music requirements specified above, but who are experienced as instrumentalists or singers, may be admitted on the basis of the qualifying audition. Those candidates who have not completed the Grade 6 piano requirement prior to entering the B.Mus. program must do so, at their own expense, before proceeding to second year.

## Health Professions and Medical Sciences

### • Bachelor of Arts

*Three-year general (minor concentration)*
Available in: health.

### • Bachelor of Nursing Science

A four-year integrated program of basic sciences, humanities, and nursing leading to a Bachelor of Nursing Science degree. This program equips graduates for a wide variety of careers in health care.

Clinical practice in hospitals and community health settings is an important element within each year of the program. In addition, there are five weeks of concentrated clinical practice at the end of the first and third years of the program.

The Bachelor of Nursing Science program prepares individuals for employment in a wide range of health care services, including general hospitals, chronic care and rehabilitative facilities, home care, psychiatric services, northern nursing services, and public health. In addition, individuals may pursue graduate studies in nursing or a related field. With experience, individuals may also embark on careers in nursing administration and nursing education.

Graduates are eligible to write examinations for registration as a nurse in Ontario and other Canadian provinces.

The demand for persons holding a nursing degree from Queen's remains strong, with the majority of graduates being able to find positions in Canada in their area of interest.

*Admission requirements*
Grade 13 or the OSSD, with one credit in mathematics and one credit in chemistry. Grade 13 or OAC biology and English are strongly recommended.

The deadline for receipt of applications is March 1.

### • Doctor of Medicine

A four-year program leading to the degree of Doctor of Medicine. The main objective of the structured program is to afford students the maximum opportunity to develop the knowledge, skills, and attitudes that will best motivate and equip them to choose the field of endeavour most appropriate to their talents. The curricula and educational methods are under continual scrutiny with this main objective in view.

*Admission requirements*
Seventy-five students are admitted annually into the first medical year. They are selected on the basis of a strong academic record and the assessment by the Admissions Committee of personal characteristics felt to be most appropriate for the study of medicine at Queen's and for the subsequent practice of medicine. The application centre must receive applications by November 1.

To be eligible for admission, students must have successfully completed at least two years of university work beyond Grade 13 and have credit for one full university course, including laboratory work, in each of the following subject areas: general physics, general chemistry, general biology or zoology, and organic chemistry.

All candidates are requested to write the New Medical College Admissions Test. Those who have completed only one year of university work may wish to write the test in the spring following submission of the application. However, those who have completed two or more years of university work must write the test before the deadline date for receipt of applications.

The Admissions Committee does not give preference to applicants who have studied in a particular undergraduate program. The baccalaureate degree is not required, and candidates having completed two or three years of university work will be given the same consideration as candidates possessing an undergraduate or graduate degree. Place of residence and location of the university where studies have been undertaken are not criteria in the selection process. In making its selection, the Admissions Committee carefully considers autobiographical information submitted by the applicant and assessments made by references. Candidates may seek additional information by writing or telephoning the Office of Undergraduate Affairs and Admissions, (613) 545-2542.

### • Occupational Therapy

A four-year degree program leading to a Bachelor of Science (Occupational Therapy). The student will take courses in anatomy, biology, occupational therapy, physiology, kinesiology, psychology, sociology, plus a number of options. In the fourth year the student will study research and clinical developments and the administration of an occupational therapy department, and will conduct an in-depth study of a selected clinical subject.

There are 8 to 12 weeks of supervised clinical practice between the second and third years, and 16 weeks between the third and fourth years, to complete university requirements and for provincial licensing. This precludes summer employment.

*Admission requirements*
Grade 13 or the OSSD, with one credit in mathematics, one credit in chemistry, and one credit in biology. Selection will be based on academic qualifications and on information gained from an autobiographical letter. An interview is not mandatory and is not an integral part of the admission process. Enrolment is limited to 25 students. The deadline for receipt of applications is March 1.

### • Physical Therapy

A four-year degree program leading to a Bachelor of Science (Physical Therapy). The student will take courses in anatomy, biology, physical therapy, physiology, and psychology, plus a number of options. In the fourth year, the student will study research and clinical development and the administration of a physical therapy department, and will conduct an in-depth study of a selected clinical subject.

There are 8 to 12 weeks of supervised clinical practice between the second and third years, and 16 weeks between the third and fourth years, to complete university requirements and for provincial licensing. This precludes summer employment.

*Admission requirements*
Grade 13 or the OSSD, with one credit in mathematics, one credit in chemistry, and one credit in biology. Grade 13 or OAC physics is strongly recommended. Selection will be based on academic qualifications and on the information gained from a Personal Background Information Form. An interview is not mandatory and is not an integral part of the admission process. Enrolment is limited to 25. The deadline for receipt of applications is March 1.

### Humanities and Related Courses

**• Bachelor of Arts**

*Three-year general (minor concentration)*
Available in: English, French, German, Greek, image of man in modern literature, Italian, Latin, philosophy, religion, Russian, Spanish.

**• Bachelor of Arts**

*Four-year honours (medial concentration)*
Available in: English, French, German, Greek, Italian, Latin, philosophy, religion, Spanish.

**• Bachelor of Arts**

*Four-year honours (major concentration)*
Available in: English, French, German, Greek, Latin, philosophy, religion, Spanish.

**• Bachelor of Arts**

*Four-year honours (special field concentration)*
Available in: classics, classical studies, Greek language and civilization, language and linguistics, Latin language and civilization, Spanish and Latin American studies, translation.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Theology: B.Th.**
A three-year program in theology for a few selected older students (over 31 years of age). Completion of five arts courses is a prerequisite.

**• Master of Divinity: M.Div.**
A three-year graduate program for students preparing for the ordained ministry of the church. Courses include Hebrew Bible, New Testament, biblical languages, study of religion, systematic theology, church history, ethics, and the practice of ministry.

**• Master of Theology: Th.M.**
A one-year post-M.Div. program for clergy and church workers who seek further training in pastoral care and counselling.

**• Master of Theological Studies: M.T.S.**
A two-year graduate program in academic theology that enables students to study particular areas in some depth.

### Mathematical and Physical Sciences

**• Bachelor of Arts**

*Three-year general (minor concentration)*
Available in: chemistry, computing and information science, geological sciences, mathematics, physics, statistics.

**• Bachelor of Arts**

*Four-year honours (medial concentration)*
Available in: a combined concentration of chemistry, computing and information science, geological sciences, mathematics, physics, or statistics, and another concentration area from the humanities or social sciences.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Science**

*Four-year honours (major concentration)*
Available in: chemistry, computing and information science, geography, geological sciences, mathematics, physics, statistics.

**• Bachelor of Science**

*Four-year honours (medial concentration)*
Available in: chemistry and biology, chemistry and computing and information science, chemistry and geography, chemistry and geological sciences, chemistry and mathematics, computing and information science and biochemistry, computing and information science and mathematics, computing and information science and physics, computing and information science and geological sciences, computing and information science and statistics, geological sciences and biology, geological sciences and geography, mathematics and physics, physics and statistics.

**• Bachelor of Science**

*Four-year honours (specialization concentration)*
Available in: astrophysics, cognitive science, chemical physics, chemistry, geological sciences, geography, geological sciences with physics, mathematical physics, mathematics, physics, statistics, theoretical physics.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

### Social Sciences and Related Courses

**• Bachelor of Arts**

*Three-year general (minor concentration)*
Available in: classical studies, economics, geography, history, political studies, psychology, sociology.

**• Bachelor of Arts**

*Four-year honours (medial concentration)*
Available in: classical studies, economics, geography, history, political studies, psychology, sociology.

**• Bachelor of Arts**

*Four-year honours (major concentration)*
Available in: classical studies, economics, geography, history, political studies, psychology, sociology, women's studies, studies in culture, communications and society.

**• Bachelor of Arts**

*Four-year honours (special field concentration)*
Available in: Canadian studies, classical studies, Commonwealth studies, Greek language and civilization, Latin language and civilization, mediaeval studies, social behaviour, Spanish and Latin American studies, translation.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Science**

*Four-year honours (major/specialization)*
Available in: geography, psychology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**• Bachelor of Science (medial concentration)**
Available in: geography and biology, geography and chemistry, geography and geological sciences.

**• Bachelor of Science (subject of specialization)**
Available in: cognitive science, geography.

**• Bachelor of Commerce**
A four-year program leading to the degree of Bachelor of Commerce and designed to prepare students to pursue rewarding careers in the complex world of business, government, or law. The curriculum provides a balanced program embracing the fields of accounting, finance, marketing, production, industrial and human relations, computing, and quantitative methods. The structure of this curriculum enables the student to acquire a broad perspective, as well as to concentrate on one or more chosen functional areas. Since close relations exist between the programs in the School of Business and its allied disciplines in the university, the student is given the opportunity to select optional courses in the fields of computing and information science, economics, geography, history, languages, mathematics, philosophy, political studies, psychology, sociology, and the sciences.

*Admission requirements*
Grade 13 or the OSSD, with one credit in English and two credits in mathematics (chosen from Grade 13 algebra, calculus, functions and relations, or OAC calculus and algebra and geometry).

The School of Business also offers a two-year postgraduate program in business studies leading to the Master of Business Administration degree.

**• Bachelor of Laws**
A three-year program in law leading to the LL.B degree.

The Faculty of Law, with a total enrolment of under 450 students and a very favourable professor-student ratio, encourages personal contact between professors and students. The faculty has exceptional staff and library resources in the fields of international law, constitutional law, administrative law, correctional an criminal law, family law, and labour relations la

*Admission requirements*
A bachelor's or equivalent degree from a recognized university, *or* at least two years of academic work in a recognized university after Grade 13, *or* at least three years of academic

work in a recognized university after Grade 12. The above are minimum requirements. Due to the large number of applications, applicants should have yearly averages over 75% and law-aptitude test scores in the top half of the scoring range (32 or better) in order to be competitive. Place of residence and location of the university where studies have been taken are not considered.

All candidates are requested to write the Law School Admission Test.

**• Master of Industrial Relations**

This one-year multidisciplinary Master of Industrial Relations (M.I.R.) degree program is a joint undertaking of the Industrial Relations Centre, School of Business, Faculty of Law, and Department of Economics. The program stresses the application of theoretical knowledge and empirical analysis and prepares students for a variety of career opportunities in personnel and industrial relations, applied and policy oriented research, and non-university teaching. The program is designed to attract both new graduates and career employees.

*Admission requirements*

A four-year honours degree with upper second-class standing, or a three-year bachelor's degree with relevant and substantial work experience and demonstrated solid evidence of strong academic potential. Applicants must have successfully completed a basic university-level course covering both micro- and macro-economics; a good understanding of elementary statistics is also desirable.

**• Master of Urban and Regional Planning (M.Pl.)**

A two-year program of graduate studies to train professional planners. Planning is an interdisciplinary field, comprised primarily of social sciences, with some introduction to design and environmental studies. The M.Pl. program links theory with action and integrates management perspective in planning and development studies. Graduates of the program are employed as professional planners by public and private agencies.

The curriculum is comprised of six required core courses and ten or eight electives, along with a "report" or "thesis", respectively. The core courses introduce basic theories and techniques common to all fields of urban and regional planning.

The school's offerings of elective courses are meant to promote an in-depth understanding of housing, land-use planning and community development, and program planning and development. A field of concentration will normally consist of three courses, approved by the faculty advisor, from the offerings of the school or cognate disciplines, at least one of which will be a methodological course. Beyond the field of concentration a student will have ample opportunity to pursue other academic and professional interests, with the approval of the faculty advisor, through the remainder of the five or seven electives from within the school as well as in other divisions of the university.

*Admission requirements*

A four-year honours bachelor degree in the social sciences, humanities, or design and engineering disciplines required. Applicants normally should have an upper second-class standing in the undergraduate degree to be considered for admission. A few candidates with a three-year bachelor degree are admitted as qualifying students for a year before being accepted in the M.Pl. program.

**• School of Public Administration**

The Queen's School of Public Administration offers two graduate degree programs leading to a Master of Public Administration. The first is a one-year professional program designed to meet the needs and interests of recent university graduates and mid-career public servants seeking to upgrade their qualifications. The school also offers a two-year, part-time, In-Service Professional (IPS) program designed for working public servants. Forty-eight students are enrolled annually in MPA; eighteen of these are taking the IPS program. The MPA program is interdisciplinary, with a central focus on public policy and the development of analytical and managerial skills, working toward a full understanding of the economic, political, and social context in which decisions are made.

*Admission requirements*

A university degree is usually required. Candidates who do not possess university degrees may be considered on the basis of employment experience.

**Residence**

The university provides residence accommodation in single and double rooms for approximately 1 100 undergraduate men and 1 400 undergraduate women, including a fair proportion of upper-year students, and 300 graduate students of both sexes.

Bedrooms are completely and comfortably furnished with a single bed, desk, chair, wardrobe or closet, and dresser for each student. Each room is equipped with a private telephone. In most areas facilities include sitting rooms on various floors, large central lounges, study rooms, and music and recreation areas. Laundry equipment is available in each residence and includes coin-operated washers and dryers, irons, and ironing boards.

An Accommodation Listing Service is provided to assist students, faculty, and staff to locate off-campus private housing accommodation. Information regarding the availability of private accommodation is on display in the office.

Office hours are 8:30 a.m. to 4:30 p.m. Monday to Friday, during the fall and winter term.

Inquiries should be addressed to the Office of Apartment and Housing Service, 169 University Avenue, Kingston. Telephone (613) 545-2501.

*Residence fees 1987-88*
*$2 061 (excluding meals)*
*$3 841 (single room including meals)*
*$3 698 (double room including meals)*

**Tuition Fees 1987-88**

Tuition fees for full-time students are subject to change, but currently are as follows for Canadian students admitted to first year:
Applied science $1 639.62
Arts and Science $1 511.01
Commerce $1 532.12
Education $1 508.62
Law $1 538.62
Medicine $1 911.12
Nursing $1 510.12
Physical and health education $1 512.32
Rehabilitation therapy $1 508.62
MBA $1 545.62

For information on foreign student fees, please contact the Admissions Office.

**Further Information**

For an opportunity to view university life as a Queen's student, students are welcome to visit the campus Monday through Friday at 10 a.m. during the academic year. During the summer months, students are invited to participate in guided tours of the campus, which leave the Liaison Office at 1 p.m. Monday – Friday.

*Inquiries about general information and visits to Queen's should be directed to*
Liaison Office
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2217

*Inquiries regarding admission should be directed to*
Assistant Registrar (Admissions)
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2218

*Information about student awards and loans may be obtained from*
Assistant Registrar (Student Awards)
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2216

## Royal Military College

## Kingston

**Commandant and Vice-Chancellor:**
**Commodore E.R. Murray**

The Royal Military College had its beginning in 1874 in the Act of Parliament establishing "an institution for the purpose of imparting a complete education in all branches of military tactics, fortification, engineering, and a general scientific knowledge of the military profession, and for qualifying officers for command and for staff appointments."

The site selected was the old naval dockyard on Point Frederick, immediately east of Kingston. The college was opened in June 1876, with the first class consisting of 18 cadets. The objectives of the Canadian military colleges are:

1. to prepare and motivate officer cadets for effective service as commissioned officers in the Canadian Forces by:
- providing a university level education in both official languages in appropriate disciplines designed on a broad base to meet the unique needs of the forces, and
- developing qualities of leadership;

2. to improve in appropriate fields the educational background of students who are commissioned officers in the Canadian Forces by providing undergraduate and postgraduate courses in both official languages.

The courses of instruction provide a sound and balanced liberal, scientific, and military education. Cadet-wing organization and military training seek to develop a high degree of physical fitness in the officer cadets and to imbue them with a sense of responsibility, self-discipline, fair play, and fellowship. An officer cadet, in many ways – in the classroom, on parade, at games, and in other extracurricular activities – is given an opportunity to command, to learn the art of management, and to experience the value of good team work. The co-mingling of English- and French-speaking cadets, from all provinces and enrolled in all components of the Canadian Forces, is designed to break down differences and inculcate a spirit of tolerance and understanding. Officer cadets are given a basic knowledge of all elements while training in their chosen classifications and obtain a good understanding of the problems of national defence.

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 762 | 59 |
| Part-time | 40 | 34 |

**General Admission Requirements**
Ontario applicants completing Grade 13 may apply for Royal Military College or Royal Roads Military College. In the period of transition to the new Ontario Secondary School Program, the OSSHGD and the OSSD, with required subjects, normally will be given equal credit for admission purposes. Those completing Grade 12 of the current five-year program may apply to the College militaire royal de Saint-Jean.

Applicants planning to enter the Royal Military College in the fall of any year are urged to submit an application to a Canadian Forces Recruiting Centre as soon as possible. Evidence of final-year academic standing is not required at time of application.

**Academic Qualifications**
All degree programs at Canadian military colleges are of four years' duration beyond the normal secondary school level required for university admission, except for candidates entering the College militaire royal de Saint-Jean, where a five-year course is required.

**General Qualifications**
A candidate for admission must:
1. be a Canadian citizen;
2. meet the minimal medical classification for enrolment as prescribed;
3. obtain a passing standing in a series of pre-enrolment tests as prescribed;
4. be single and undertake to remain single until commissioned;
5. possess the necessary academic qualifications;
6. obtain a passing standard from the pre-academic Basic Officer Training Course.

The preferred age range for entry to RMC, RRMC, or first year (not preparatory year) at CMR is from 16 years of age on January 1 of the year of enrolment to 20 years of age on January 1 of the year of enrolment. For entry to the preparatory year at CMR, the preferred age range is from 16 years of age on January 1 of the year of enrolment to 19 years of age on January 1 of the year of enrolment.

**• Degree Programs Offered**
Arts
Engineering
Science

Required courses for all programs in arts include English, mathematics, military leadership and management, physical education, science, and second-language training (English or French). Required courses for all programs in science or engineering include economics, English, history, military leadership and management, physical education, second-language training (English or French), and two additional arts elective courses.

**Language of Instruction**
Both English and French are languages of instruction. Many degree courses are offered in both languages, but examinations may be taken in the language of the candidate's choice.

*Royal Military College*
To meet the minimum requirements for admission to the general course at the Royal Military College, an applicant must offer standing at a level satisfactory to the college (OSSHGD or OSSD in Ontario) in the following subjects:
1. English or French (one credit course acceptable for Ontario applicants);
2. mathematics (calculus, and functions and relations); and
3. two or three of algebra, chemistry, and physics.

To meet the minimum requirements for admission to the arts course at the Royal Military College, an applicant must offer standing at a level satisfactory to the college (OSSHGD or OSSD in Ontario) in the following subjects:
1. English (one or more credits);
2. functions and relations or calculus;
3. at least two of the following: history, French, calculus, algebra, physics, chemistry, geography, economics, classical studies, social studies, biology, or another language;
4. other acceptable subjects to complete Grade 13.

*In other provinces*
English or French, mathematics, and one or two of chemistry and physics, and any other approved subject (or subjects) to make up the full requirements for graduation in the current year of work.

*Royal Roads Military College*
Requirements vary only slightly from those of the Royal Military College.

*Preparatory year at Collège militaire royal de Saint-Jean*
Graduates from secondary schools in Ontario should have successfully completed Grades 11 and 12 of the current five-year course, including the following subjects: English (for English-speaking applicants) or français (for French-speaking applicants), mathematics, physics, and chemistry.

**Physical Requirements**
*Candidates are required to meet the common enrolment standards of the Canadian Forces.* The fundamental medical requirement is a sound, healthy body with normal mental and muscular co-ordination. Particular attention is given to the cardiovascular system, respiratory system, central nervous system, visual acuity, colour vision, eye muscle balance, organs of speech, and sense of hearing. Any condition that, as it exists, or that, due to possible progression, may limit the candidate's career as a member of the Canadian Forces will be cause for rejection.

Candidates should be prepared to participate in a vigorous, progressive physical training program.

**Financial Assistance**
The fees of an officer cadet who is a member of the Regular Officer Training Plan will be paid for by the Department of National Defence. A cadet is also entitled to pay and allowances prescribed by the plan.

Other applicants are eligible to apply for a number of scholarships and bursaries, including the Ontario Student Assistance Program.

*Dominion Cadetships*
Fifteen Dominion Cadetships, each worth the value of tuition, meals, and accommodation, are available to first-year reserve entry cadets at Canadian military colleges. A candidate must be the child of a person who died, was killed, or is severely incapacitated as a result of service in a component of the Armed Forces of Canada.

Applications must be made in writing to
National Defence Headquarters
Ottawa, Ontario K1A 0K2
Attention: Director of Recruiting and Selection

*Royal Military College Club of Canada Foundation Scholarships*
A number of scholarships are open to competition each year among all reserve entry applicants for admission to the Canadian military colleges. Each scholarship has a value of $1 000 per year until graduation, providing the holder successfully completes each previous college year. An applicant, to be awarded a scholarship must be accepted as a reserve entry candidate for the Royal Military College, Kingston, Ontario Royal Roads Military College, Victoria, B.C.; or College militaire royal de Saint-Jean, Quebec.

Further information may be obtained from
Secretary-Treasurer
RMC Club of Canada
Kingston, Ontario K7K 5L0

**Residence Accommodation**
All cadets at Canadian military colleges are in full-time residence at the colleges. At RMC single rooms are normally provided, except early in the recruit year, when it is usually found beneficial to place two cadets in a room. Dining facilities are provided. Full recreational facilities, including an indoor swimming pool, are located near the residences.

The college is divided into squadrons under the direction of cadet officers in their senior year, with an experienced serving officer as squadron commander. Overall direction is in the hands of the Director of Cadets.

This combination of collegiate and military life provides an unparalleled opportunity for young men and women to study, in practice, the problems of leadership and management that are discussed in the classroom.

**Fees (Reserve Entry Cadets)**
The following scale applies to all officer cadets attending a Canadian military college with reserve status *(fees quoted are subject to revision):*
1. college fee of $1 000;
2. payment for meals and accommodation (approximately $200 per month while in residence at a college);
3. an annual recreation club fee of $80.

**Further Information**
*Direct inquiries to the commanding officer of any Canadian Forces Recruiting Centre, or write to*
Registrar
Royal Military College of Canada
Kingston, Ontario K7K 5L0
Telephone (613) 545-7302

# Ryerson Polytechnical Institute

## Toronto

**President: B. Segal**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 6 655 | – |
| Part-time | 4 502 | – |

The following program listing outlines basic admission requirements for Ryerson programs in 1986-87. Students are advised to contact the Office of Admissions for more detailed information.

**Programs Offered**

**• Aerospace Engineering – Degree**
Four years, leading to a Bachelor of Technology (Aerospace Engineering). Students may apply to graduate with a diploma in Aerospace Engineering Technology after successfully completing the first three years of the program.

*Admission requirements*
An OSSHGD including Grade 13 English, functions and relations, calculus, physics, and chemistry. Preference will be given to applicants with the highest overall average in the above subjects. Students with the OSSHGD who lack one of the above Grade 13 subject requirements may be considered on an individual basis.

**• Applied Computer Science – Degree**
Four years leading to a Bachelor of Technology (Applied Computer Science).

*Admission requirements*
An OSSHGD including Grade 13 English, two Grade 13 mathematics (one of which must be functions and relations and one of calculus or algebra), and Grade 13 physics. Preference will be given to applicants who have obtained 60% or higher in each of the prerequisite subjects and with the highest overall average in these subjects.

**• Applied Geography – Degree**
Four years leading to a Bachelor of Applied Arts (Geography).

*Admission requirements*
An OSSHGD. It is recommended that applicants include geography, English, and mathematics (one of calculus, algebra, or functions and relations) in their Grade 13 program. Preference will be given to applicants with the highest overall average in their Grade 13 program. Applicants will be requested to appear for an interview, where travelling distance permits.

**• Architectural Science – Degree**
Four years leading to a Bachelor of Technology (Architectural Science).

*Admission requirements*
An OSSHGD including Grade 13 English, mathematics (functions and relations preferred), and physics. Preference will be given to applicants with 60% or higher in each of the prerequisite subjects. Applicants will be asked to submit a portfolio and, where travelling distance permits, appear for an interview.

**• Arts – Diploma**
Three years leading to a Diploma in Arts.

*Admission requirements*
An OSSGD including any three Grade 12 academic subjects, such as: English, economics, history, geography, any language, mathematics, physics, chemistry, and biology (advanced 60%, general 70%), plus one other Grade 12 subject (advanced 60%, general 70%). Applicants will be requested to appear for an interview, where travelling distance permits.

**• Business Management – Diploma and Degree**
Three years leading to a Business Administration diploma; one year of study beyond Ryerson Diploma in Business Administration leading to a Bachelor of Business Management.

*Admission requirements*
*Diploma in Business Administration:* OSSHGD including a minimum of 60% in Grade 13 English and mathematics (one of functions and relations, algebra, or calculus). Grade 13 mathematics of investment or finance is not an acceptable mathematics course.
Duration: Three years.

*Degree:* Ryerson Business Administration Diploma with a 4.4 grade point average. A limited number of students will be admitted to full-time degree studies and will be ranked according to grade point average.
Duration: One year of study beyond Ryerson Diploma in Business Administration.

**• Chemical Engineering – Degree**
Four years leading to a Bachelor of Technology (Chemical Engineering). Students may apply to graduate with a diploma in Chemical Engineering Technology after successful completion of the first three years of the program.

*Admission requirements*
OSSHGD including Grade 13 chemistry, physics, functions and relations, and calculus. English (Grade 12), advanced 60% or higher, is also required. Preference will be given to applicants with the highest overall average in the above Grade 13 subjects. Students with the OSSHGD who lack one of the above Grade 13 subject requirements may be considered on an individual basis.

**• Civil Engineering – Degree**
Four years leading to a Bachelor of Technology (Civil Engineering). Students may apply to graduate with a diploma in Civil Engineering Technology after successful completion of the first three years of the program.

*Admission requirements*
OSSHGD including Grade 13 physics, chemistry, functions and relations, and calculus. English (Grade 12), advanced 60% or higher, is also required. Preference will be given to applicants with the highest overall average in the above Grade 13 subjects. Students with the OSSHGD who lack one of the above Grade 13 subject requirements may be considered on an individual basis.

**• Early Childhood Education – Degree**
Four years leading to a Bachelor of Applied Arts

(Early Childhood Education). Part-time attendance may be permitted by special application.

*Admission requirements*
An OSSHGD including Grade 13 English. Candidates will be selected on the basis of their overall Grade 13 average (six Grade 13 credits or equivalent), and the essay as noted below. Preference will be given to candidates with a minimum overall Grade 13 average of 65%, including Grade 13 English with a minimum of 65%. Applicants are required to submit a 750-word typewritten essay (two copies) with their application, describing their experiences with children and why they wish to pursue a career in early childhood education. Applicants should have a minimum of 80 hours' experience working with children in groups. Examples of appropriate experiences are volunteer work in day care centres, leading Brownie Packs, camp counselling, work in parks and recreation, etc. Applicants with appropriate academic qualifications and acceptable essays will be required to attend an interview to assess these experiences and relevant personal characteristics, where travelling distance permits.

Graduates from early childhood education diploma courses in Ontario community colleges may apply for admission to the third year.

**• Electrical Engineering – Degree**
Four years full-time study leading to a Bachelor of Technology (Electrical Engineering). Students may apply to graduate with a diploma in Electrical Engineering Technology after successful completion of the first three years of the program.

*Admission requirements*
An OSSHGD with a minimum of 60% in advanced English (Grade 12) and Grade 13 physics, chemistry, functions and relations, and calculus. Preference will be given to applicants with the highest overall average in the above Grade 13 subjects. Preference will also be given to students with 60% or higher in Grade 13 algebra and English.

**• Environmental Health – Degree**
Four years leading to a Bachelor of Applied Arts (Environmental Health).

*Admission requirements*
An OSSHGD including Grade 13 English 60%, and advanced chemistry (Grade 12 or higher) 60%. Biology (Grade 11 or higher) is strongly recommended.

Duration: Four years of study. Students are eligible to pursue certification as Public Health Inspectors (C.P.H.I.(C.)), following successful completion of third year.

**• Fashion – Degree**
Four years leading to a Bachelor of Applied Arts (Fashion). Students may apply to graduate with a Diploma in Fashion after successful completion of the first three years of the program.

*Admission requirements*
An OSSHGD including a minimum of 60% in Grade 13 English and mathematics. Mathematics of investment or finance is not an acceptable Grade 13 mathematics course. Although art is not treated as an academic prerequisite for entry into the fashion program, it is strongly recommended that if art courses (*e.g.*, life and/or mechanical drawing and art history) are offered in the candidate's secondary school curriculum, they should be pursued.

Applicants will be required, when possible, to appear for an interview with the School of Fashion, at which time their aptitude for and interest in a career in fashion design and/or merchandising will be assessed. Students will be admitted into either the fashion design or fashion merchandising option in the first year.

At the admission interview, applicants should present a portfolio of 10 to 12 items that provide evidence of versatility and creative awareness. This may include drawings, design projects, and garments. Leadership qualities and organizational skills can be expressed through slides or photographs of projects carried out at school or in the community, and by letters of reference from employers of those applicants with previous work experience.

**• Food, Nutrition, Consumer and Family Studies – Degree**
Four years leading to a Bachelor of Applied Arts (Food, Nutrition, Consumer and Family Studies).

*Admission requirements*
An OSSHGD including Grade 13 English, minimum 60%, and Grade 13 chemistry, or equivalent. Preference will be given to students receiving a minimum of 60% in Grade 13 chemistry or equivalent. Candidates will also be selected on the basis of their overall Grade 13 average (six Grade 13 credits or equivalent).

It is recommended that applicants who plan to specialize in Foods and Nutrition include the following subjects in their program: Grade 13 biology and Grade 12 advanced mathematics. Students are encouraged to include a credit in Grade 13 mathematics (or equivalent), a Grade 13 social science, and a senior-level family studies course in their secondary school studies.

Those interested in a teaching career in family studies should contact their guidance office concerning additional Grade 13 requirements for a second teaching subject.

**• Graphic Communications Management – Degree**
Four years leading to a Bachelor of Technology (Graphic Communications Management).

*Admission requirements*
An OSSHGD including Grade 13 English; Grade 12 advanced chemistry, 60% or higher; and Grade 12 advanced mathematics, 60% or higher. It is recommended that applicants include chemistry in their Grade 13 program. An interview with a school faculty member may be required.

**• Hospitality and Tourism Management – Degree**
Four years leading to a Bachelor of Applied Arts (Hospitality and Tourism Management) plus the equivalent of one academic year of acceptable cumulative work experience (to be acquired before admission to fourth year). Students may apply to graduate with a diploma in Hotel, Restaurant, and Institutional Administration after successful completion of the first three years of the program.

*Admission requirements*
An OSSHGD (six Grade 13 credits or equivalent), including a minimum of 60% in Grade 13 English and mathematics (one of functions and relations, algebra, or calculus).

**• Industrial Engineering – Degree**
Four years leading to a Bachelor of Technology (Industrial Engineering). Students may apply to graduate with a diploma in Industrial Engineering Technology after successful completion of the first three years of the program.

*Admission requirements*
OSSHGD including Grade 13 English, functions and relations, calculus, physics, and chemistry. Preference will be given to applicants with the highest overall average in the above Grade 13 subjects. Students with the OSSHGD who lack one of the above Grade 13 subject requirements may be considered on an individual basis.

**• Interior Design – Degree**
Four years leading to a Bachelor of Applied Arts (Interior Design). Accredited by the Foundation for Interior Design Education Research (FIDER).

*Admission requirements*
An OSSHGD including Grade 13 English (60%), Grade 13 mathematics (60%) (functions and relations preferred), and one of the following Grade 13 subjects with a minimum of 60%: history, art history, geography, economics, sociology, or family studies. Preference may be given to students who have included history or art history in their Grade 13 studies. The history choice should be from contemporary history selections if possible. Students should also select physics (Grade 11 or higher). Art is strongly recommended and, where possible, the student should take art in Grades 11, 12, and 13.

Applicants will be assessed on their aptitudes and interests for a career in interior design and will be required to appear for an interview, bringing with them a portfolio containing 12 to 15 items showing evidence of two- and three-dimensional creative ability. The student must have an aptitude for drawing.

**• Journalism – Degree**
Three years leading to a Bachelor of Applied Arts (Journalism).

*Admission requirements*
An OSSHGD including Grade 13 English and history. Candidates will be screened on the basis of their overall Grade 13 average (six Grade 13 credits or equivalent). Preference may be given to candidates who have obtained a minimum overall average of 70% (six Grade 13 credits or equivalent), with a grade of 75% or higher in Grade 13 English.

Applicants are required to write tests on current events, word usage, and spelling. Applicants will be interviewed, except as noted below. Applicants who live more than 500 kilometres from Toronto, and who therefore find it difficult to attend an interview, may submit a 500-word essay (two copies), outlining why they want to study journalism. A minimum keyboarding skill of 30 wpm is required, and applicants will be tested.

Note: The Ryerson School of Journalism offers a two-year program for students who hold bachelor's degrees from accredited English-language universities. For details contact the Office of Admissions.

**• Laboratory Science – Degree**
Four years leading to a Bachelor of Technology (Laboratory Science). Students may apply to graduate with a Diploma in Laboratory Science after successful completion of the first three years of the program.

*Admission requirements*
OSSHGD including Grade 13 chemistry, biology and functions and relations. Advanced English (Grade 12), 60% or higher, is also required. Pre erence will be given to applicants with the high-

**est overall average in the above Grade 13 subjects. Students with the OSSHGD who lack one of the above Grade 13 subject requirements may be considered on an individual basis.**

### •Landscape Architectural Technology – Diploma

**Three years leading to a Diploma in Landscape Architectural Technology.**

*Admission requirements*
An OSSHGD including Grade 13 English. Preference will be given to students who include mathematics, chemistry, biology, and geography in their Grade 13 studies, and who have obtained 60% or higher in the required/preferred subjects.

It is suggested that mature applicants who have studied mathematics several years previously take a refresher course in mathematics through the Grade 12 level before entering the program.

Applicants are required to submit a written statement (two copies) outlining their aptitudes and interests in landscape architectural technology, and are also requested to submit samples of any creative pursuits. They may be invited to a personal interview where travelling distance permits.

### •Mechanical Engineering – Degree

Four years leading to a Bachelor of Technology (Mechanical Engineering). Students may apply to graduate with a diploma in Mechanical Engineering Technology after successful completion of the first three years of the program.

*Admission requirements*
OSSHGD including Grade 13 English, functions and relations, calculus, physics, and chemistry. Preference will be given to applicants with the highest overall average in the above Grade 13 subjects. Students with the OSSHGD who lack one of the above Grade 13 subject requirements may be considered on an individual basis.

### •Nursing – Diploma and Degree

*Diploma:* Two years (six semesters including two semesters of practicum).

*Degree:* Two years of study beyond diploma program (or equivalent) leading to a Bachelor of Applied Arts (Nursing).

*Admission requirements*
*Diploma:* An OSSHGD including Grade 13 English, chemistry, and biology or physics. Preference will be given to students who have obtained 60% or higher in these subjects and in advanced mathematics (Grade 11 or higher).

Students must submit information pertaining to their state of health and immunization prior to registering. Instructions will be provided upon acceptance.

Students in the Nursing Diploma program are required to possess the Ontario Heart Foundation Basic Cardiac Life Support Certificate prior to registration in year one of the program. Students are responsible for maintaining a current certificate throughout the entire program.

*Degree:* Ryerson Diploma in Nursing (or equivalent). Registered or eligible for registration in Ontario. Graduates of the Ryerson diploma program who wish admission to the degree program must reapply for admission. Part-time studies are available. Contact the School of Nursing for further information.

Applicants should include the following with their Ryerson diploma/degree application form:
1. Officially certified transcripts of all nursing and other postsecondary-level studies, indicating specific courses and grades.
2. As much course detail as possible (including course descriptions) to validate that applicants have the prerequisites of psychology, sociology, and English.
3. Separate, detailed résumé of work experience, academic experience (including continuing education), and professional activities.
4. A letter outlining educational goals, including a choice for clinical focus in the degree program (adult, child and family, or mental health nursing) and how this relates to applicant's past experience.
5. A photocopy of a current Registered Nurse Ontario Certificate, or proof of eligibility for same if registered outside of Ontario.

### •Office and Administrative Studies – Degree

Three years following Grade 13, four years following Grade 12. The program leads to a Bachelor of Applied Arts (Office and Administrative Studies). Students wishing to obtain a diploma may do so after completing three years of study following Grade 12, or two years of study following Grade 13.

*Admission requirements*
Year 1 – OSSGD with a minimum of 10 credits in Grades 11 and 12, including two credits in English (Grades 11 and 12). Preference will be given to applicants with advanced-level credits, and who have obtained an average of 65% or higher in advanced English (Grades 11 and 12). Applicants may be required to appear for an interview where travelling distance permits.
Year 2 – OSSHGD. Preference will be given to applicants with 65% or higher in Grade 13 English.

A keyboarding skill of 35 wpm (gross) is strongly recommended for entrance to year 1 or 2 of the program.

### •Photographic Arts – Degree

Four years leading to a Bachelor of Applied Arts (Photographic Arts).

*Admission requirements*
An OSSHGD with a minimum of 60% in Grade 13 English, or equivalent standing. Aptitudes and interests of applicants will be carefully assessed. Applicants should be prepared to demonstrate their proficiency in English, appear for an interview (where travelling distance permits), and make available samples of work appropriate to the option they intend to enter, *i.e.*, film studies option, media arts option, or still photography studies option. *Applicants must state their intended option at time of application.*

### •Public Administration – Certificate, Advanced Certificate, and Bachelor of Applied Arts (Public Administration)

Three levels of study (offered on a part-time basis through various teaching modes). Students may apply to graduate with a certificate after the completion of level 1 and an advanced certificate after the completion of level 2. Level 3 leads to a Bachelor of Applied Arts (Public Administration).

*Admission requirements*
An OSSHGD. Students who do not possess the OSSHGD may be eligible for admission under Ryerson's mature student guidelines. These apply to individuals who:
(a) Are 21 years of age by December 31 of the year in which they will begin studies.
(b) Have been away from formal education for at least two years.
(c) Are Canadian citizens or landed immmigrants for one year, or are sponsored by a Canadian government agency.
(d) Can present evidence of ability to cope with the program.

### •Radio and Television Arts – Degree

Three years leading to a Bachelor of Applied Arts (Radio and Television Arts).

*Admission requirements*
An OSSHGD including Grade 13 English, minimum 70%. Preference will be given to applicants with a 70% or higher average in six Grade 13 subjects. Applicants are required to submit with their application two copies of a typewritten statement (minimum 500 words) explaining their reasons for choosing a career in radio and/or television. This statement should outline interests and/or experiences (academic or extra-curricular) that demonstrate a capacity to succeed in the broadcasting field. These could include activities that indicate leadership abilities and/or self-motivation, an interest in society, or actual work experience in the field. Students must be able to type.

Graduates of university programs will be considered, but will be required to take the full three-year program. Unfortunately, students wishing to study on a part-time, special, or auditor basis cannot be admitted into this program.

### •Social Work – Degree

Four years leading to a Bachelor of Applied Arts (Social Work). Offered on a full- or part-time study basis. Students may apply to graduate with a Diploma in Social Work after successful completion of the first three years of the program. The four-year degree program is accredited by the Canadian Association of Schools of Social Work.

*Admission requirements*
An OSSHGD including 65% in Grade 13 English. Secondary school applicants will be selected on the basis of their overall Grade 13 average (six Grade 13 credits or equivalent), and an admissions selection test. University/college applicants will be selected on the basis of their secondary school/university/college academic performance and the admissions selection test. Overall academic performance/averages will determine who participates in the admissions selection test.

Admissions test will be written on campus (or at another school of social work if distance makes travel to Toronto difficult). The test is designed to give a sense of the applicant's interests and aptitude for a career in social work.

Due to the nature of the program, it is essential that applicants be a minimum of 18 years of age as of June 1 of the year in which they wish to commence study. Work and any volunteer experiences in the social service field will be taken into account.

### •Survey Engineering – Degree

Four years leading to a Bachelor of Technology (Survey Engineering). Students are also required to accumulate the equivalent of one year of work experience, through summer and/or full-time work, in surveying or related fields (can be completed before, during, or after academic studies). Students may apply to graduate with a diploma in Survey Engineering Technology after successful completion of the first three years of the program.

*Admission requirements*
OSSHGD including Grade 13 physics, functions and relations, and calculus. Grade 12 advanced English, 60% or higher, is also required. Preference will be given to applicants with the highest overall average in the above Grade 13 subjects. Students with the OSSHGD who lack one or more of the above Grade 13 subject requirements will be considered on an individual basis.

**• Theatre (Dance, Technical/Production, Acting) – Diploma**
Acting – three years; Canadian College of Dance – three years; Technical/Production – three years.

*Admission requirements*
An OSSGD. All theatre programs require that candidates be a minimum of 17 years of age, except for the dance program where the minimum age is 16. Female dance applicants must offer proof of satisfactory ballet training – a minimum of five years training (*i.e.*, Elementary RAD standard or its equivalent). Male applicants who have not had any classical training must demonstrate a degree of physical fitness ability.

All successful applicants must submit a medical certificate certifying their fitness for all physical activities. Both personal and theatrical references (if possible) are required. Applicants will be expected to appear for an entrance audition and/or interview, for which there is a fee of $15. Full information regarding auditions and interviews will be forwarded to the applicant upon receipt of application.

**• Urban and Regional Planning – Degree**
Four years leading to a Bachelor of Applied Arts (Urban and Regional Planning). Accredited by the Canadian Institute of Planners.

*Admission requirements*
An OSSHGD. Preference will be given to candidates with an overall average of 60% or higher. Students are advised to select from the following Grade 13 subject areas: modern languages, economics, family studies, mathematics, geography, or English. Mathematics of investment or finance is not an acceptable mathematics course. Applicants must demonstrate a genuine interest in urban and regional issues. Qualified applicants will be interviewed, where travelling distance permits.

**• Continuing Education**
Continuing Education at Ryerson gives part-time adult learners a wide variety of program options geared primarily to their career-oriented needs. Credit and non-credit courses spanning over 450 subject areas are offered each year. Many of these courses can be applied towards one of Continuing Education's certificate programs, and many may be credited toward Ryerson's day school diploma and degree programs. Depending on their interests, students may choose from credit and professional development courses and seminars, courses leading to professional certification, over 45 certificate programs, and part-time degree studies. Studies are offered in applied arts, arts, business, community services, and technology. Special programs and courses include wide-ranging selections such as in-house and off-campus programs, seniors' studies, and Summer at Ryerson.

Academic advisors are available at specific times during registration to assist part-time adult learners in selecting appropriate courses.

Although many courses require an academic background of Grade 12 or its equivalent, many students find that they are successful on the basis of their experience in business or industry.

Contact the Continuing Education Division, Ryerson Polytechnical Institute, 350 Victoria Street, Toronto, Ontario M5B 2K3, or telephone the Information Centre at (416) 979-5036.

Open College, the educational service of radio station CJRT-FM 91.1, provides a unique opportunity for people within a 160-kilometre radius of Toronto to take degree credit courses at home by listening to the radio or cassette tapes. No educational prerequisites are required to participate in this program. For further information, contact Open College, 297 Victoria Street, Toronto, Ontario M5B 1W1, telephone (416) 595-0485.

**Financial Assistance**
Students in financial need may apply for assistance from a variety of sources. In addition to government assistance in the form of loans and grants to full- and part-time students, institutional bursaries are available to full-time students.

For further information concerning government assistance see the introductory section on financial assistance and check with Ryerson's Financial Aid and Awards Office. The Financial Aid and Awards Officer will also have details on bursaries and scholarships offered by the institution.

At Ryerson, scholarships are awarded on the basis of academic excellence. The awards are generally granted automatically to the recipients for their performance during the previous academic year.

Bursaries are awarded to students with satisfactory academic performance and a demonstrated financial need. To be eligible, a student must be a daytime student at Ryerson, have achieved and maintained satisfactory academic standing, and demonstrated real financial need.

**Residence Accommodation**
*O'Keefe House*
Ryerson has one residence (O'Keefe House), which accommodates 37 men. There are, however, several residences located within easy walking distance of Ryerson. Further information on housing is available from Ryerson's Housing Registry.

*Neill-Wycik College*
Neill-Wycik is a 22-storey, co-educational, cooperative residence owned and operated by the student residents. Located one block from the main Ryerson campus, the residence provides accommodation for approximately 700 students.

**Housing Registry**
Please request a copy of the brochure, "Living in Toronto," from Ryerson's Housing Registry, Ryerson Polytechnical Institute, 350 Victoria Street, Toronto, Ontario M5B 2K3, telephone (416) 979-5043.

**Tuition Fees (1986-87)**
Please note that the fee structure for the academic year at Ryerson has been restructured. The fees as included here are for the 1986-87 academic year only; fees for the 1987-88 year are not yet available. Please contact the Ryerson Student Fees Department at (416) 979-5015.

The total fee for full-time students who are Canadian citizens or landed immigrants was $1 125.50 for the fall and winter terms, and $533 for the spring term. The total fee for full-time visa students was $4 976.50 for the fall and winter terms, and $2 478.50 for the spring term.

Students whose total fees for the academic year (fall and winter terms) amount to more than $675.30 may make arrangements to pay their fees in two instalments for an additional $30 non-refundable installation charge.

For fee schedules for part-time students, special departmental charges, and cost of supplies for individual programs, please consult the Ryerson day school calendar.

**Further Information**
*For further information write to*
Information Centre
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3
Telephone (416) 979-5036

*Inquiries regarding scholarships, bursaries, student awards, and housing should be addressed to*
Student Services Department
Ryerson Polytechnical Institute
350 Victoria Street
Toronto, Ontario M5B 2K3

# University of Toronto

## Toronto

**President: Dr. G.E. Connell**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 28 859 | 5 470 |
| Part-time | 13 360 | 3 364 |

**Faculties, Schools, Centres, and Institutes**
Faculty of Applied Science and Engineering
Faculty of Architecture and Landscape Architecture
Faculty of Arts and Science
Faculty of Dentistry
Faculty of Education
Faculty of Forestry
Faculty of Law
Faculty of Library and Information Science
Faculty of Management Studies
Faculty of Medicine
Faculty of Music
Faculty of Nursing
Faculty of Pharmacy
Faculty of Social Work
Royal Conservatory of Music
School of Graduate Studies
School of Physical and Health Education
Banting Institute
Banting and Best Diabetes Centre
Best Institute
Centre for Comparative Literature
Centre of Criminology
Centre for Industrial Relations
Centre for International Studies
Centre for the Study of Materials
Centre for Medieval Studies
Centre for Nuclear Engineering
Centre for Reformation and Renaissance Studies
Centre for Religious Studies
Centre for Research in Librarianship
Centre for Russian and East European Studies
Centre for South Asian Studies
Centre for Urban and Community Studies
Graduate Centre for the Study of Drama
Institute for Aerospace Studies
Institute of Biomedical Engineering
Institute of Child Study
Institute for Environmental Studies
Institute for History and Philosophy of Science and Technology
Institute of Immunology
Institute of Medical Science
Institute for Policy Analysis
Joint Centre on Modern East Asia
Ontario Institute for Studies in Education
Pontifical Institute for Medieval Studies

**Arts and Science Colleges**
Erindale Campus
Innis College
New College
St. Michael's College
Scarborough Campus
Trinity College
University College
Victoria College
Woodsworth College

**General Admission Requirements**
Entrance to the first year of the undergraduate courses is offered, depending upon the number of places available, to candidates from Ontario secondary schools who demonstrate good standing based upon:
a) completion of six appropriate OACs.
b) eligibility to receive the OSSD.
c) a complete academic report for courses taken in the senior division of secondary school.

Secondary school applicants receive a Student Profile to complete and return. This questionnaire enables students to supplement their academic results so that the university may make a better assessment of their academic and personal strengths.

Throughout their secondary school years students should study in as many as possible of the following areas: English, French and other languages, mathematics, sciences, and social studies. Students should also carefully consider what aspects of their projected university work will entail prerequisite studies. Most faculties regard certain OACs as necessary preparation; these are listed under the entry for each division.

A full description of these admission requirements is contained in the admission handbook, *A Great Tradition.* Applicants to programs in business administration, education, library science, social work, and child study must hold a bachelor's degree.

Any change in entrance requirements for September 1988 will be communicated to high schools in February or March 1987.

*Bachelor of Arts, Bachelor of Science, Bachelor of Commerce*
New arts and science requirements, effective 1988:

Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/anglais I; one credit in mathematics or a language other than English; and four additional credits; however, no more than two OACs in any one subject will be accepted.

During the transition from OSSHGD to the OSSD, the university will accept a combination of Grade 13 and OAC credits.

Students are advised to complete the secondary school program at a rate consistent with their interests and abilities. The length of time taken to complete the first two requirements above will not be considered in the selection process.

The University of Toronto is not able to admit all qualified candidates and, therefore, the completion of the OSSD and six OACs will not guarantee admission. The university will continue to select students by taking into consideration a wide range of criteria including Grade 13 and/or OAC marks, distribution of subjects taken, performance in subjects relevant to the academic program selected, results in senior division (Grades 11 and 12) prerequisite courses, and supplementary information obtained through the Student Profile program, questionnaires, portfolios or auditions.

Students who are not eligible for an OSSD may appeal to receive consideration for admission. The appeal must provide evidence that:
a) a minimum of 30 credits, at least 14 of these in the senior division have been completed, and
b) a minimum of six acceptable OAC have been completed, and
c) the academic program presented has the support and approval of the secondary school principal.

Note 1: As of 1988, applicants whose first language is not English must fulfil the following requirements:
a) Those who have studied for more than two years in an English-language school system must present OAC I in English.
b) Those who have studied for two years or less in an English-language school system can choose to present one of the following: a score of 580 on the Test of English as a Foreign Language (TOEFL), or 90 on the Michigan English Language Assessment Battery; or OAC I in English.

An essay-style test of English proficiency is administered to all students after admission. Students will have repeated opportunities to pass this test during their first two years. It will be necessary to pass it before being admitted into third year.

*Bachelor of Arts, Bachelor of Science*
Three years.
Fifteen courses over the three-year period. Students are required to complete a major program consisting of at least five and not more than seven courses in one discipline or study area. In addition, three other courses of the 15 must be in disciplines other than those of the major program. Disciplines with major programs are listed under specific subject areas.

*Bachelor of Arts, Bachelor of Science*
Four years.
Twenty courses over the four-year period. Students are required to complete *one* of the following:
1) A specialist program consisting of at least nine and not more than 13 courses in one discipline or study area.
2) A combined specialist program consisting of at least 14 and not more than 16 courses in two or more disciplines or study areas.
3) Two major programs, each of which consists of at least five and not more than seven courses in one discipline or study area.

In addition, three courses of the 20 must be in disciplines other than those of the specialist or combined specialist disciplines. Disciplines and study areas with specialist and/or combined specialist programs are listed under specific subject areas.

*Bachelor of Arts/Bachelor of Science*
Four years.

Three co-operative programs, combining university study with work terms in business and industry, are available at the Scarborough Campus. Degree earned: four-year B.A. or B.Sc. with specialist certification.

**Limited Enrolment**
Enrolment in most programs in professional divisions and in some arts and science programs is limited. Most of these programs have special entrance requirements in addition to OAC requirements (*e.g.,* entrance audition, art portfolio, special questionnaires, etc.). The university cannot guarantee acceptance of all qualified applicants to limited enrolment programs; however, applicants will be considered for alternate program and faculty choices where possible.

A minimum of 70% on six appropriate OACs is required for general admission consideration to the university. However, many divisions require averages considerably higher than the minimum. Some divisions, in their selection process, make use of non-academic criteria (*i.e.,* architecture and landscape architecture, music, physical and health education) and, therefore, occasionally may offer admission to a student who has less than 70%.

**Application for Admission**
Candidates currently in their graduating year in an Ontario secondary school should apply through their high school using the general application form. Applications received from such candidates by the date announced on the application form will be given early consideration. All other candidates should write to the Office of Admissions, giving details of their previous academic work.

Note: University of Toronto calendars are sent to all Ontario secondary schools, and Canadian universities. An admission handbook is available upon request from
Office of Admissions
University of Toronto.
315 Bloor Street West
Toronto, Ontario M5S 1A3

## Erindale Campus University of Toronto in Mississauga

**Principal: Desmond Morton**

One hundred and fifty-seven modern, fully furnished townhouses provide 641 students with some of the least expensive university campus accommodation in Ontario.

**General Admission Requirements**
See *General Admission Requirements,* "Bachelor of Arts, Bachelor of Science, Bachelor of Commerce."

**Programs Offered**
Erindale offers courses leading to three- and four-year Bachelor of Arts or Bachelor of Science degrees and a four-year Bachelor of Commerce degree. Students electing to follow a three-year program will take a major concentration in a discipline or an approved area of study, while those choosing a four-year program will specialize in a discipline or complete two major areas of concentration. Students will also select, at some point in their program, at least one course from each of the academic divisions of humanities, physical and life sciences, and social sciences.

Humanities: classics, drama, English, fine art, French, German, history, Italian, linguistics, philosophy, religious studies, Slavic studies, and Spanish. Physical and life sciences: astronomy, biology (botany, microbiology, zoology), chemistry, computer science, geology, mathematics, physics, psychology, statistics, and survey science. Social sciences: anthropology, commerce, communications, economics, geography, political science, and sociology.

Students may choose from a broad range of specialist and major programs, including a number of unique programs sponsored by Erindale. The following listing outlines these special programs.

*Art and art history* provides an excellent initial training for careers in art galleries and museums, for advanced study of the history of art and art conservation, for freelance art careers, and for the teaching of art in Ontario schools. Students earn both a University of Toronto degree and a diploma of art and art history from Sheridan College. Please note that applications must be submitted to both the University of Toronto and Sheridan College.

*Survey science* is the science of measuring and representing geometrical and physical features of the environment. The program at Erindale includes subjects such as land surveying, geodesy, photogrammetry, remote sensing, cartography, survey law, and computer programming.

The four-year specialist program, which is fully approved by the Association of Ontario Land Surveyors, leads to the B.Sc. degree. Algebra, calculus, English, functions and relations, and physics are mandatory for entry into survey science.

In addition to survey science and art and art history, such programs as the joint psychology and biology program in animal behaviour and the specialist programs in exceptionality in human learning and earth and planetary sciences offer subject emphases not available elsewhere within the university.

**Approved Areas of Study**
The following interdisciplinary approved areas of study are available at Erindale Campus: Canadian studies, crime and deviance, earth resources, exceptionality in human learning, Latin American studies, material culture, Native studies, population and society, renaissance studies, and urban studies.

**Library**
Erindale's undergraduate library is one of the best. Spacious, attractive, and comfortably furnished, it holds over 190 000 books, an array of 955 current journals and periodicals, and offers an efficient book delivery system that allows students access to the five million volumes in the university's library collection.

**Scholarships, Awards, and Financial Aid**
Special scholarships are available at the Erindale Campus, in addition to the general awards available to all University of Toronto students. Over 50 of the Erindale awards, valued at between $1 000 and $1 500, are awarded annually. Some, including the Chancellor's Scholarships ($1 500 each), the Dean's Scholarship ($1 200), and the University Women's Club of Mississauga Scholarship ($1 000), are awarded annually and are renewable for three more years, provided an "A" standing is maintained.

**Further Information**
*Campus visits and general information*
Mr. Doug Leeles or Ms. Tennys Reid
Telephone (416) 828-5217

*Academic counselling and help with program selection*
Dr. Les McCormick or
Ms. Mary Alice Beyer-Gammon
Telephone (416) 828-5244 or 828-5331

*For further information on scholarships and awards contact*
Mrs. Valerie Rowles
Telephone (416) 828-5234

*For information about residence contact*
The Housing Office
Telephone (416) 828-5279

## Scarborough Campus University of Toronto

**Principal: Dr. G. Ronald Williams**

**General Admission Requirements**
See *General Admission Requirements,* "Bachelor of Arts, Bachelor of Science".

**Programs Offered**
Scarborough offers courses leading to three- and four-year Bachelor of Arts and Bachelor of Science degrees. Students who wish to earn a four-year degree will complete either a specialist program in one discipline or two major programs in different disciplines. Those who wish to earn a three-year degree will follow a major program of study or a college program. Most programs are flexible enough that students can also take courses from outside their specialist or major areas of interest.

*Humanities* – arts, cell and molecular biology, classics, drama, ecology, English, environmental biology, fine art, French, German, history, humanities, Italian, linguistics, literature, music, philosophy, Spanish. *Life Sciences* – biology, microbiology, psychology. *Physical Sciences* – biochemistry, chemistry, computer science, geology, mathematics, physics, statistics. *Social Sciences* – anthropology, commerce, economics, geography, political science, sociology.

A number of unique programs are available at the Scarborough campus. *Co-operative programs in Administration, Arts Administration, and International Development Studies.* These three programs, which combine university study with work terms in business and industry, are the only co-op programs available at the University of Toronto. Students in the *co-op program in administration* take courses in commerce, economics, history, political science, sociology, psychology, and statistics for a truly integrated view of administration, both public and private. Four work terms provide practical experience in these areas. *Arts administration* students take many of the same background courses as administration students, but also courses in at least two arts fields: drama, fine art studio, fine art history, or music. Two work terms are spent with museums, theatres, galleries, and other such arts organizations. The *co-op program in international development* integrates courses in political, economic, and social development studies with courses in physical resource management. An eight- to twelve-month work term placement in a Third World country gives students the opportunity to apply what they have learned in their academic program.

*Neurosciences* at Scarborough encompasses several disciplines: anatomy, physiology, biochemistry, psychology, and pharmacology. Its goal is understanding the behavioural, biological, and biochemical processes in the brain and nervous systems.

*Terrain and Environmental Earth Sciences (TEES):* This multidisciplinary program recognizes the growing concern for our environment. Studies in geology are strongly supported by chemical and other physical sciences.

**Interdisciplinary programs**
Programs combining the resources of different disciplines can provide an unusual focus for the study of various themes and topics. Available at Scarborough College are: Canadian studies, cognitive science, development studies, history of ideas, medieval civilization, myth and religion, neurosciences, quaternary studies, women's studies and society, and values and medicine.

**Library**
The Bladen Library at Scarborough College is one of the best undergraduate libraries at the university. Almost 200 000 books are available on open shelves, as well as maps and periodicals, and in its media centre, recordings and fine art slides. Individual study carrels placed throughout the library provide study space for up to 500 students. A daily book-delivery service allows students access to most of the books in the extensive university library system.

**Residences**
Residence accommodation is provided for 394 students in furnished, self-contained townhouses, each housing four to six students in single and double rooms. The Student Village, a short walk from the main college building, is largely self-governing. A real sense of community characterizes Village life.

**Student Awards**
Scarborough College offers 40 to 50 entrance awards in addition to the general University of Toronto scholarships. The most prestigious of these is the Plumptre Award, currently valued at $2 000.

**Further Information**
*For further information, or arrangements to visit the Scarborough campus, please write or telephone*

Ms. Jackie Kemp
Counselling Services Office
Scarborough Campus
University of Toronto
1265 Military Trail
Scarborough, Ontario M1C 1A4
Telephone (416) 284-3292

*For further information about residence, contact*

Ms. Penelope Laycock
Manager, Student Residences and
Conference Services
Telephone (416) 284-3174

*For further information about co-op programs, contact*

Office of Co-operative Programs
Telephone (416) 284-3117

## Professional Faculties

### Agricultural and Biological Sciences

**• Bachelor of Arts/Bachelor of Science**

*Three/four year*

Available in: biochemistry, biochemistry and chemistry, biogeography, biology, biology/mathematics, biology/physics, botany, human biology, microbiology, molecular biology, neuroscience (Scarborough Campus only), nutritional sciences, zoology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

### Education/Physical Education/Recreation

**• Bachelor of Physical and Health Education**
The School of Physical and Health Education offers a four-year honours degree program, comprising 21 academic credits plus 14 activity courses, a cardiopulmonary resuscitation course, and at least two supervised leadership experiences. Students may elect to pursue a health science, sport studies, leisure studies, or general studies emphasis. Those electing the health science emphasis will be well prepared for entering the M.Sc./Ph.D. program in the exercise sciences, offered by the Graduate Department of Community Health.

*Admission requirements*
There are no specific OAC requirements; however, these requirements are strongly recommended for 1988 and will be effective in 1989.

Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/anglais I; one credit in biology; one credit in algebra and geometry or calculus or finite mathematics; one credit in chemistry or physics; one credit in physical and health education*; and one elective credit.

Biology 110 must be included in the first-year university program if an OAC in biology has not been completed. In addition, applicants are required to complete a Physical Activity and Leadership Experience Questionnaire.

### Engineering and Applied Sciences

**• Bachelor of Applied Science**
The Faculty of Applied Science and Engineering offers a four-year program leading to a Bachelor of Applied Science degree. Eight programs are available: chemical engineering and applied chemistry, civil engineering, electrical engineering, engineering science, geo-engineering, industrial engineering, mechanical engineering, metallurgical engineering and materials science. The first year is common to all programs except engineering science. Students are required to select one of the above eight programs upon making application.

In the third year, engineering science students elect one of the following options: aerospace, chemical, computer science, electrical, geophysics, computer aided manufacturing, nuclear and thermal power, or physics.

In the third year, geo-engineering students elect one of the following options: mineral exploration, mineral engineering, or geotechnical engineering.

The faculty has a two-term system, with the academic year divided into two terms, each lasting approximately 16 weeks. Most courses are one term in duration, with concentration on six subjects at one time. There is provision for students to elect a slightly higher or lower than normal course load in some terms. Promotional standing is determined at the conclusion of each term.

Each program consists of core courses in relevant areas of science, mathematics, and engineering, plus technical and humanities/social science elective subjects allowing students to specialize in one or more minor fields of interest. The humanities/social science electives provide an opportunity to take courses in the humanities, the social sciences, and other courses related to various aspects of professional practice.

Students may choose a co-operative work-study program, which involves a concentrated 16-month employment period (the Professional Experience Year) between second and third academic years. This program provides engineering experience in a co-operating industry that is closely related to the student's field of specialization. Fourth-year students who intend subsequently to continue to graduate studies may participate in the co-ordinated bachelor/master's program, which normally permits a reduction in the time required for completion of the master's degree.

*Requirements for Admission to the Faculty of Applied Science and Engineering, effective 1988:*
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/anglais I; one credit in algebra and geometry; one credit in calculus; one credit in chemistry; one credit in physics; and one elective credit; students are strongly encouraged to select a credit in humanities or social sciences for their elective.

*English Facility Requirements for Applied Science and Engineering, effective September 1988*
Applicants whose first language is not English and who have studied two years or less in an English-language school system will be allowed exemption from the requirement of the OAC in English, provided that they present an acceptable score in either the University of Michigan English Language Test or the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service, or their equivalent. The present acceptable scores for arts and science are 90 on Michigan, 580 on TOEFL, and for engineering are 85 on Michigan and 550 on TOEFL.

Applicants whose first language is not English who present an OAC in English will not be required to submit any further evidence of English facility for admission.

**• Bachelor of Architecture**

*Five years*

*Admission requirements, effective 1988*
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/anglais I; one credit in algebra and geometry; one credit in calculus; and three elective credits*.

All applicants are asked to complete a questionnaire and to present a portfolio of their work. Candidates whose first language is not English may be required to present proof of facility in the English language.

**• Bachelor of Landscape Architecture**

*Five years*

*Admission requirements, effective 1988*
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/anglais I; one credit in algebra and geometry; one credit in calculus or finite mathematics; and three elective credits*.

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*In the event a school does not offer an OAC in physical and health education, the student is exempted from this requirement and should select an additional elective credit.

*Architecture wants to ensure breadth in the academic preparation of students; therefore, students must select their three OAC electives according to the following guidelines: two humanities credits in addition to English are acceptable; a maximum of two science credits is acceptable; a maximum of two social science credits is acceptable; no additional mathematics credit is acceptable.

It is strongly recommended that prospective applicants to the program include studies in art, biology, geography, and environmental, social, and natural sciences. All applicants are asked to complete a questionnaire and submit a portfolio of their work. Candidates whose first language is not English may be required to present proof of facility in the English language.

### • Bachelor of Science in Forestry

*Four years*
The undergraduate forestry program comprises approximately 75% required courses and 25% elective courses. The first two years are common to all students. In the third year, students are required to elect one of the following options: (1) general forestry or (2) wood science and forest products (which is concerned primarily with the anatomy and physical and chemical properties of wood and their implications for structural and chemical engineering). The areas of interest in the general forestry option are silviculture, land use planning, animal and plant ecology, tree physiology, forest pathology and entomology, timber harvesting and utilization, aerial photography and remote sensing, tree and stand measurement, genetics, and urban forestry.

A work-study program (Professional Experience Year), which involves a 16-month employment period, is made available to selected students between the second and third years. It provides them with a unique opportunity to apply the results of their first two years of university education and to develop a focus for the remaining two years of academic studies. It may also provide an opening for permanent employment upon graduation.

*Admission requirements, effective 1988*
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/anglais I; one credit in chemistry; one credit in calculus; one credit in algebra and geometry or finite mathematics; and two elective credits. OAC physics is strongly recommended.

## Fine and Applied Arts

### • Bachelor of Arts

*Three/four years*
Available in: art and art history (Erindale Campus only), co-operative program in arts administration (Scarborough Campus only), cinema studies, drama (limited enrolment), fine art (history and/or studio), music.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

### • Bachelor of Music

*Four years*
In second-year music, students choose their major field of concentration from one of the following: composition, conducting, history and literature, music education, theory.

*Academic requirements*
Candidates from Ontario secondary schools must present at least five academic credits at the OAC level, not including music or Royal Conservatory of Music certificates. There is a strong possibility that an OAC in English I/anglais I will be required. Students are advised to check with the Office of Admissions for current information. Candidates whose first language is not English may be required to present proof of facility in the English language. Applicants should contact the Faculty of Music directly, in the fall, to request the faculty's music questionnaire for entrance the following September. Telephone (416) 978-3741.

*Musical requirements*
a) Major performing medium. All candidates are required to audition. The minimum standard expected is the RCMT Grade 10 (or equivalent) for piano or organ; or Grade 8 in any standard orchestral or band instrument, classical guitar, free bass accordion, historical instruments, or voice. The RCMT syllabi should be consulted for guidance in preparing auditions and for the standard expected.
b) Theory. (1) RCMT (or equivalent) certificates: Grade 2 rudiments and Grade 3 harmony, or (2) an admission-placement test of general musicianship.
c) Additional requirement: interview (at the same time as the audition).
d) Keyboard proficiency. Students whose major performance instrument is not piano will find that a Grade VI (RCMY) certificate will assist them in their studies at the faculty. The Faculty of Music does not, however, require proof of certification or an examination in keyboard proficiency.

### • Bachelor of Music in Performance

*Four years from a four-year high school course.*

*Academic requirements*
Students must be eligible for an OSSD and present at least five academic credits at the advanced level, not including Grade 12 or 13 music or RCMT certificates (or equivalent). Music is highly recommended as a subject but will not be counted in the five credits.

*Musical requirements*
a) Major performing medium. An entrance audition in performance is required of all applicants. Only those showing special talent will be admitted to the course. Candidates may audition on any standard orchestral or band instrument, recorder, piano, organ, harpsichord, classical guitar, or voice. Details of the required standard may be obtained from the Admissions Officer of the Faculty of Music.
b) Theory. Same as for Bachelor of Music degree program (see above).
c) Additional requirement: interview (at the same time as the audition).
d) Keyboard proficiency: See Bachelor of Music degree program above.

### • Artist and Licentiate Diploma Programs (Faculty of Music)

*Three years*
*Artist diploma:* A course to train performers for professional careers.

*Licentiate Diploma:* A course that combines practical training with instruction in pedagogy to prepare students for careers as private piano teachers.

*Academic requirements*
Same as for the Bachelor of Music in performance.

*Musical requirements*
a) Major performing medium. Candidates must pass an audition. Superior performing ability is expected. For the Artist Diploma program, candidates may audition on any standard orchestral or band instrument, piano, harpsichord, classical guitar, or voice. The Licentiate Diploma program is available only in piano.
b) Theory. Same as for Bachelor of Music degree program (see above).
c) Additional requirement: interview (at the same time as the audition).

### • Bachelor of Science in Art as Applied to Medicine (Medical Illustration)

*Three years*
An advanced course offered to qualified artists.

*Admission requirements*
Candidates must present a complete six OACs, including English and biology. OACs in chemistry, art, and a university arts and science option are strongly recommended. Applicants should also have a minimum of two and a half years of formal studio courses in art; this training should follow high school and should emphasize illustration rather than fine art.

*Address inquiries to*
Director
Department of Art as Applied to Medicine
University of Toronto
256 McCaul Street
Toronto, Ontario M5T 1W5

## Health Professions and Medical Sciences

### • Bachelor of Arts/Bachelor of Science

*Three/four years*
Available in: biochemistry, microbiology, molecular genetics, nutritional science, pharmacology, physiology, toxicology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

### • Bachelor of Science in Nursing

*Four years*

*Admission requirements, effective 1988*
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/anglais I; one credit in chemistry; one credit in algebra and geometry; o calculus or finite mathematics; and three elective credits.

Candidates who are graduates of diploma nursing programs are required to have completed secondary school studies including six OACs, including chemistry and English. Examinations for advanced standing in the first- and second-year nursing courses will be offered to these applicants.

A candidate of mature age (21 years of age or older on October 1 of the winter session, or July 15 of the summer session), who has lived in Ontario for a minimum of one year and is normally a resident of Ontario, may request special consideration for admission to the faculty if high standing has been obtained in *pre-university chemistry and English*, offered through Woodsworth College (or equivalent courses), and standing in such other tests as may be required.

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*Landscape Architecture wants to ensure breadth in the academic preparation of students; therefore, students must select their three OAC electives according to the following guidelines: two humanities credits in addition to English are acceptable; a maximum of two science credits is acceptable; a maximum of two social science credits is acceptable; no additional mathematics credit is acceptable.

Address enquiries to the Admissions Officer, Faculty of Nursing, University of Toronto, 50 St. George Street, Toronto, Ontario M5S 1A1.

**• Bachelor of Science in Pharmacy**

*Four years*

*Admission requirements, effective 1988*
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Applicants must include the following OACs: one credit in English I/anglais I; one credit in algebra and geometry; one credit in calculus; one credit in chemistry; one credit in physics; and one elective credit.

In addition, all applicants must write the Pharmacy College Admission Test (PCAT), which must be written in February. Information on the test is available in high school guidance offices and from
Faculty of Pharmacy
University of Toronto
19 Russell Street
Toronto, Ontario M5S 1A1

All first-year students and second-year advanced standing or transfer students entering the undergraduate program are required to write an English Proficiency Test. Students who fail the test on the initial attempt will be required to repeat the test successfully prior to registration in Year 3.

Program is not open to foreign students.

**• Bachelor of Science (Occupational Therapy)**
**Bachelor of Science (Physical Therapy)**

*Four years*

*Admission requirements, effective 1988*
Applicants must be eligible for the OSSD.

Applicants must present credits in at least six OACs, including those prescribed.

Occupational therapy applicants must include the following OACs: one credit in English I/anglais I; one credit in biology or chemistry or physics; one credit in algebra and geometry or calculus or finite mathematics; and three elective credits.

Physical therapy applicants must include the following OACs: one credit in English I/anglais I; one credit in biology; one credit in chemistry; one credit in physics; one credit in algebra and geometry or calculus or finite mathematics; and one elective credit.

*Address inquiries to*
Department of Rehabilitation Medicine
University of Toronto
256 McCaul Street
Toronto, Ontario M5T 1W5

**• Doctor of Dental Surgery**
Four years following completion of a minimum of two years' full-time university study at a level beyond secondary school graduation. These years must include courses in biology, chemistry, physics, and organic chemistry (all with lab components) that are acceptable to the faculty. Applicants must also take the Canadian Dental Association's Dental Aptitude Test, which is written in November and March.

*Inquiries should be addressed to*
Admission Office
Faculty of Dentistry
University of Toronto
124 Edward Street
Toronto, Ontario M5G 1G6

**• Doctor of Medicine**
Four years following completion of:
a) a minimum of two years in a degree program in a Canadian university, after completion of six OACs and the OSSD, and obtaining appropriate credit in the prerequisite subjects*, or
b) a bachelor's degree from a recognized university, and obtaining credit in the prerequisite subjects*.

*All applicants are required to have satisfactorily completed the following courses:
Biology or zoology (with lab): one OAC or an appropriate university-level course.
Physics (with lab): one OAC or an appropriate university-level course.
General chemistry (with lab): a university course of one year's duration. Quantitative or qualitative analysis and physical chemistry are acceptable.
Organic chemistry (with lab): a university course of one year's duration.

All applicants to the medical course must write the New Medical College Admission Test (MCAT) by the fall of the year preceding the proposed year of entry into the medical course. Applications for this test should be submitted not later than one month prior to the date of the test. Information and applications for the New MCAT may be obtained from the Student Affairs Office, Faculty of Medicine, or by writing to: New MCAT Registration, American College Testing Programme, P.O. Box 414, Iowa City, Iowa 52240, U.S.A.

Preference is given, in the selection process, to Canadian citizens and permanent residents who reside in Ontario.

*Address inquiries to*
Assistant Dean
Student Affairs
Faculty of Medicine
University of Toronto
Toronto, Ontario M5S 1A8
Telephone (416) 978-2717

### Humanities and Related Courses

**• Bachelor of Arts/Bachelor of Science**

*Three/four years*
African studies, Canadian studies, Celtic studies, Christianity and culture, East Asian studies (Chinese, Hindi, Japanese, Korean, Sanskrit), history, history and philosophy of science and technology, Latin American studies, medieval studies, Middle East and Islamic studies, Near Eastern studies (Assyriology, Egyptology, Hebrew, Jewish studies), Native studies, philosophy, religious studies, Slavic studies (Czech, Slovak, Hungarian, Polish, Russian, Serbo-Croatian, Ukrainian), Spanish and Portuguese.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts, Bachelor of Science".

**• Theology (Toronto School of Theology)**
Courses are offered by Emmanuel College (United Church), Knox College (Presbyterian), Regis College (Roman Catholic-Jesuit), St. Augustine's Seminary (Roman Catholic-Diocesan), St. Michael's College (Roman Catholic), and Trinity and Wycliffe Colleges (Anglican). Inquiries should be directed to the head of the college concerned, c/o the University of Toronto, Toronto, Ontario M5S 1A3.

### Mathematical and Physical Sciences

**• Bachelor of Arts/Bachelor of Science**

*Three/four years*
Available in: actuarial science, astronomy, chemistry, computer science, geology, mathematics, mathematics/biology, physics, physics/biology, statistics, survey science (Erindale Campus only), terrain and environmental earth sciences (Scarborough Campus only).

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts, Bachelor of Science".

### Social Sciences and Related Courses

**• Bachelor of Arts/Bachelor of Science**

*Three/four years*
Available in: anthropology, commerce, co-operative programs in administration and international development studies (Scarborough Campus only), criminology, economics, education and society, environmental studies, geography, international relations, political science, psychology, sociology, urban studies, women's studies.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts, Bachelor of Science".

**• Bachelor of Commerce**

*Four years*
Twenty-three courses over four years. Students are required to complete a commerce and finance program consisting of not more than 17 courses in the 23-course program. In addition, at least four courses must be in disciplines other than those in the commerce and finance program. Enrolment in the Bachelor of Commerce program is restricted. Entry is dependent on achievement in first-year courses.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Commerce".

**• Bachelor of Laws**
Three years following at least two years of academic study beyond obtaining an OSSD (at least five years after obtaining an OSSD).
*Address inquiries to*
Office of Admissions
Faculty of Law
University of Toronto
Toronto, Ontario M5S 1A1

### Special Programs

**• Transitional Year Program**
The Transitional Year Program (TYP) is a one-year full-time course of studies for students who have the potential for pursuing a university education but are blocked from admission to university through lack of qualifications. Each year TYP enrols a limited number of promising students who had either earlier dropped out of high school for social or financial reasons or had received diplomas in courses other than the normal university admission stream and are thus academically unprepared for university.

Priority in admission is given to people who clearly have not had a fair chance to qualify for university entry. The program's Admissions Committee regards socio-economic factors such as family income and parents' education in determining whether there were conditions which may have prevented the individual from staying in school despite academic ability.

Students in the program are generally at least 19 years old and typically have been in the work force for at least one year. Applicants are expected to be able to indicate why the Transitional Year Program would be the only route through which they could achieve admission to university.

Students are enrolled for one academic session (September to April) in a special program whose aims are:

(a) to provide the student with the basic learning and communication skills necessary for university;

(b) to give the student exposure to the organized approaches to ideas and problems that characterize social science and humanistic studies;

(c) to help the student obtain course credit in one university subject as part of the student's future university program.

Students in the program are eligible for awards from the Ontario Student Assistance Program (OSAP).

For further information about the program, please phone (416) 978-6832.

**Residence**

*Undergraduate*

If, on their application for admission, students indicate an interest in residence, they will automatically be sent an application for residence accommodation. Further inquiries about available accommodation should be addressed to one of the following officials

Director of Residence
University College

Dean of Men or Dean of Women
Victoria College

Dean of Men or Dean of Women
Trinity College

Dean of Men, St. Michael's College, or
Dean, St. Joseph's College (Women)
90 Wellesley Street West
Toronto, Ontario M5S 1C5, or

Dean, Loretto College (Women)
70 St. Mary Street
Toronto, Ontario M5S 1J3

Dean of Men or Dean of Women
New College

Residence Co-ordinator
Innis College

Residence Officer
Scarborough College
Room S303-1
1265 Military Trail
Scarborough, Ontario M1C 1A4

Director of Student Affairs
Erindale College
3359 Mississauga Road
Mississauga, Ontario L5L 1C6

Secretary to the Dean (Men's Residence)
Devonshire House

*Fees*

For 1986-87 the total cost of residence accommodation, including meals, ranged from approximately $4 500 to $5 000 per session (September to May).

*For assistance in finding other accommodation, students should contact*

University Housing Service
214 College Street
Koffler Student Services Centre
Toronto, Ontario M5S 1A1

A variety of residence accommodation is offered by the two independent residences listed below. They have no official connection with the university. Inquiries should be made directly to

Campus Co-operative Residence Inc.
395 Huron Street
Toronto, Ontario M5S 2G5

Tartu College
310 Bloor Street West
Toronto, Ontario M5S 1W4

**Scholarships and Financial Assistance**

Students in financial need may apply for assistance from a variety of sources. Detailed information concerning government assistance is provided in the *Financial Assistance for Students* section of this publication.

The university, its colleges, and its faculties offer scholarships, bursaries, and emergency loans. Information concerning admission scholarships is available in all Ontario secondary school guidance offices. Students who are not enrolled in an Ontario secondary school or who wish information concerning other types of assistance should contact the Office of Student Awards, Koffler Student Services Centre, University of Toronto.

*Inquiries and requests for application forms for student awards should be addressed to*

Office of Student Awards
Koffler Student Services Centre
University of Toronto
Toronto, Ontario M5T 2Z9
Telephone (416) 586-7950

**Tuition Fees 1986-87**

Arts and science $253 per course plus college membership and incidental fees
Applied science and engineering ($1 373 plus $290.45 for incidental fees)
Architecture ($1 373 plus $182.50 for incidental fees)
Art as Applied to Medicine ($1 265 plus $183 for incidental fees)
Dentistry (1st year), ($1 607 plus $170.50 for incidental fees plus $2 106 instruments fee)
Forestry ($1 265 plus $171.50 for incidental fees)
Landscape architecture ($1 373 plus $183.50 for incidental fees)
Law ($1 265 plus $198.50 for incidental fees)
Medicine (1st year), ($1 607 plus $213 microscope fee and incidental fees)
Music ($1 265 plus $163.50 for incidental fees)
Nursing ($1 265 plus $176 for incidental fees)
Pharmacy ($1 265 plus $178.50 for incidental fees)
Physical and health education ($1 265 plus $248.50 for incidental fees)
Physical and occupational therapy ($1 265 plus $193.50 for incidental fees)

*Fees for new foreign students*

Physical and health education, music, law, rehabilitation medicine, arts and science, art as applied to medicine $4 769 plus incidental fees. All other programs $7 769 plus incidental and other fees where applicable.

All fees are approximate and subject to change without notice.

**Further Information**

*Inquiries about admission requirements should be addressed to*

Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 1A3
Telephone (416) 978-2190

*Inquiries about University of Toronto information programs for secondary schools should be addressed to*

Secondary School Liaison
Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 1A3
Telephone (416) 978-2771

# Trent University

## Peterborough

**President: John O. Stubbs**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 3 250 | 31 |
| Part-time | 1 155 | 2 |

**General Admission Requirements**
To be eligible for admission to Trent University, an applicant is required to achieve standing at a level acceptable to the university in a full Ontario secondary school program. An applicant is required to have the OSSHGD or OSSD, inluding a minimum of six Grade 13 subjects or six OACs; or equivalent qualifications from other provinces or countries. For admission consideration, the minimum overall average required on six Grade 13 subjects or six OACs is 60%. However, because of space limitations, applicants presenting the best qualifications will be given preference.

In the transition period from the OSSHGD to the OSSD, both will normally be given equal credit for admission purposes.

No minimum number of years taken to achieve this standing is specified. Although the length of time taken by an applicant to complete the OSSD will not in itself be a determining factor in the admission decision, applicants who have spent more than five years in secondary school may be required to present a higher level of achievement.

Students planning to attend university are encouraged to achieve as much breadth of academic preparation as possible in the course of their secondary school studies.

As the OAC curriculum guidelines are implemented, the university reserves the right to alter specific subject requirements for various programs. At present, however, with the exception of some language programs, there are no specified subject requirements for admission to arts programs. Applicants to science programs are advised to consult the secondary school requirements of individual disciplines as shown in the "Courses of Study" section of the Trent University calendar.

Students entering the administrative and policy studies program must have completed Grade 12 mathematics at the advanced level or its equivalent with a good standing. It is recommended that applicants have one of Grade 13 algebra, calculus, or functions and relations.

Applicants should refer to the calendar for information about admission and program requirements for the Trent-Queen's teacher education program and the administrative policy studies program.

**Agricultural and Biological Sciences**

- **Bachelor of Science**

*Three-year general/four-year honours*
Available in: biology.

*Admission requirements*
See *General Admission Requirements*.

**Education/Physical Education/Recreation**

- **Concurrent Teacher Education**

An innovative approach to teacher education that is run co-operatively with Queen's University at Trent, this program enables students to study towards a Bachelor of Arts or Bachelor of Science degree, and to fulfil the requirements of the Bachelor of Education degree at the same time, while practice-teaching in local elementary or secondary schools in each year.

**Humanities and Related Courses**

- **Bachelor of Arts**

*Three year general*
Available in: cultural studies, English, French, German, Greek, Latin, philosophy, Spanish.

- **Bachelor of Arts**

*Four-year honours*
Available in: English, French, German, Greek, Latin, philosophy, Spanish.

*Admission requirements*
See *General Admission Requirements*.

**Mathematical and Physical Sciences**

- **Bachelor of Science**

*Three-year general/four-year honours*
Available in: chemistry, mathematics, physics.

*Admission requirements*
See *General Admission Requirements* .

*Computer studies*
Computer studies offers the opportunity to study internationally recognized curriculum courses in "core" computer science along with other supporting courses designed to broaden the scope of an education in computing. The program is structured to provide a three-or four-year, joint-major or joint-honours degree.

**Social Sciences and Related Courses**

- **Bachelor of Arts**

*Three-year general*
Available in: anthropology, classical studies*, comparative development studies, computer studies, economics, environmental and resource studies, geography, history*, Native management and economic development, Native studies, politics, psychology, sociology.

- **Bachelor of Arts**

*Four-year honours*
Available in: administrative and policy studies, anthropology, Canadian studies, classical studies*, comparative development studies, economics, environmental and resource studies, geography, history*, Native management and economic development, Native studies, politics, psychology, sociology.

- **Bachelor of Science**

*Three-year general/four-year honours*
Available in: anthropology, economics, environmental and resource studies, geography, psychology.

**Admission requirements**
See *General Admission Requirements* .

- **Bachelor of Administrative Studies**

The program in administrative and policy studies is designed to provide students with a grounding in various administrative practices such as accounting, computer science, commercial law, management science, marketing, and statistics. Students are required to develop skills in effective communication and long-range policy making in preparation for broad career areas in government and industry. This is a four-year program leading to the degree of Bachelor of Administrative Studies.

*Canadian studies*
The Canadian studies program looks critically and analytically at many aspects of Canadian life from a variety of perspectives within traditional disciplines and core courses. In addition to 30 core courses, about 60 support courses are offered in 11 different areas.

*Native management and economic development*
This program aims to educate managers in the Native community through training in management skills, research, and demonstration projects. It is a co-operative effort of the Department of Native Studies and the Administrative and Policy Studies Program, leading to a two-year diploma, a Bachelor of Admninistrative Studies with an emphasis in Native Management and Economic Development, or an ordinary or honours Bachelor of Arts in Native Studies with an emphasis in Native Management and Economic Development.

*Native studies*
The Native studies program deals with the problems, culture, languages, and history of Canadian Native peoples in 29 course offerings.

*Environmental and resource studies*
The environmental and resource studies program considers resource management and environmental problems in a Canadian context. The program offers both B.Sc. and B.A. streams.

*Comparative development studies*
The comparative development studies program involves the comparative examination of societies and culture undergoing rapid change, and their relationship to the industrialized world.

*Cultural studies*
Cultural studies examines the interplay between culture and the arts through an analysis of the social conditions that shape creative thought and expression. Over 30 courses are available in several areas: film, criticism, drama, literature, and visual arts.

*Women's Studies*
Women's studies provides an opportunity to pursue an ordinary joint major degree by combining women's studies core and support courses with a joint major in another discipline.

- **General Degree**

In 1970, the Special Emphasis Program was introduced at the ordinary and honours levels to meet the needs of students who choose to take a broad range of subjects rather than major in one or more particular disciplines. Students may undertake independent study in such areas as: archaeology and the ancient world, business studies, Canadian-American relations, child studies, comparative social inequality, development of Western thought, educational studies, freshwater studies, human biology, international studies, international trade and development, legal studies, nineteenth-century studies, quantitative methods, regional development and planning, renaissance and reformation studies, religious studies, social services and native people, studies in Canadian literature and culture, studies in labour relations, studies in political economy, studies in satire, and urban studies.

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*For the purposes of Trent University, these courses fall under the Humanities heading.

**• French, German and Spanish Study Abroad**
Trent University students may study abroad for one academic year and obtain credits for regular Trent language courses. Courses are taken under the supervision of Canadian faculty and are offered at the following universities: Nantes (France), Freiburg (West Germany), and Granada (Spain). Students can also take courses along with European students for credit and will benefit from all the facilities offered the normal European student – subsidized meals and accommodation, cultural trips, and cheaper transportation. The cost of the whole year abroad, including accommodation, will not normally exceed that of a year in residence at Trent and can be reduced considerably in Freiburg and Nantes by students who wish to earn money during the holidays. These programs are especially recommended for honours candidates. Inquiries should be directed to the chairman of the appropriate department.

**• Trent University International Program**
The International Program is addressed to prospective university students of all nationalities who wish to enrich their education by studying as members of an integrated group of young men and women drawn from many different countries and regions, by acquiring knowledge and understanding of global and regional problems, and by developing the abilities that will enable them to serve the needs of their people and the international community more effectively.

Students who enrol in the program will have a normal choice of the courses offered at Trent. They must be proficient in more than one language, and those whose mother-tongue is English and who are not already bilingual must study a second language for at least two years. They will also be involved in a *Colloquium on World Affairs* once a week, which will be open to all members of the university. About one-quarter of the students in the program will be Canadians, and these students will be expected to provide a link between those from other countries and the local community.

Interested students should consult the Trent calendar for information on admission requirements.

**Residence**
In keeping with the importance Trent places on the establishment of a university community, about one-third of Trent's students live in residence. Trent houses 1 100 students in the five residential colleges: two in the city of Peterborough and three on the main campus. These residences offer a variety of accommodation, ranging from Victorian mansions to the most modern residence complexes. Most of the rooms (81%) are singles. Normally the university can accommodate about 600 year 1 students in the residential colleges. Non-resident members of the colleges enjoy full use of college facilities and take an active part in college life.

*Fees 1987-88*
(including meals)
Single $3 581
Double $3 399
Townhouse (excludes meals) $1 993

**Scholarships and Financial Assistance**
The university has a generous program of scholarships and assistance to students entering first or higher years with first-class standing. Students of exceptionally high achievement and promise may be awarded a Champlain Scholarship, which has an annual value equal to the cost of tuition and residence. The university calendar, available in most libraries and guidance offices, provides further details of Trent University's program of scholarships, awards, and bursaries.

Students in financial need may apply for assistance from a variety of sources. Government assistance, available to full- and part-time students, is explained in the introductory section on financial assistance. Students should also check with the university's Financial Aid Office.

**Tuition Fees 1986-87**
(including ancillary and student government fees)
Tuition $1 634.99

**Further Information**
*Inquiries are welcome and should be directed to*
A.P. Saxby
Director of Admissions
Trent University
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1215

*Inquiries about student awards should be directed to*
Yvonne Del Mastro, Financial Aid Officer
Trent University
Peterborough, Ontario K9J 7B8

# University of Waterloo

## Waterloo

**President: D.T. Wright**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 14 012 | 1 352 |
| Part-time | 9 188 | 406 |

**Faculties, Schools, and Institutes**
Faculty of Arts
Faculty of Engineering
Faculty of Environmental Studies
Faculty of Human Kinetics and Leisure Studies
Faculty of Mathematics
Faculty of Science

**Admission Requirements**
*General (for all programs)*
For a student to be considered for admission to any program, the university normally requires completion of a secondary school program including at least six Grade 13 or Ontario Academic Course credits leading toward the OSSHGD or OSSD, with a minimum 60% overall average. The university expects to fill the majority of places available to secondary school applicants by using the following criteria:
a) Grade 13 or OAC interim or final standing,
b) Grade 12 final standing,
c) school official's comments,
d) personal information supplied by applicant,
e) references and interviews where required.

The OSSHGD and the OSSD will normally be given equal credit for admission purposes.

The length of time taken by an applicant to complete the secondary school program will not of itself be a determining factor in the admission decision, providing the student has proceeded normally through the program without repeating any courses or credits.

Applicants whose interim standing is not sufficient for admission will be considered on the basis of their final standing, and qualified applicants will be admitted until the remaining places are filled.

Applicants whose native language is not English will be expected to satisfy English-language requirements, and to this end, they are required to write the Test of English as a Foreign Language (TOEFL). This language requirement applies to both regular and co-op applicants. A score of 600 is normally required.

*Recommendations for Admission*
The university has recommended that certain courses be included in the applicants' secondary school program. These courses are not required for admission, but applicants will benefit by having these courses as background for their first year of studies.

Where specific requirements are stated, applicants must include these requirements in their secondary school program.

Because many of the programs offered at the university have limited enrolment, the possession of the minimum requirements does not guarantee admission to any of the programs.

*Regular and Co-operative Systems of Study*
As well as the regular program of studies, where

students take courses and exams from September to April, all faculties offer extensive co-operative programs. Students enrolled in the co-operative programs alternate academic terms on-campus with work terms in business, industry, or government. The study and work terms are each four months long. The Department of Co-operative Education and Career Services makes the necessary arrangements for the work terms. Applicants to the co-operative programs must be Canadian citizens or permanent residents.

*Arts programs*

The Faculty of Arts operates under the term-course system, whereby students' progress toward a degree is measured by term courses successfully completed.

Students may obtain a Bachelor of Arts degree by following a general program with major (successful completion of 30 term courses as specified by the department), a four-year general program with a major (successful completion of 40 term courses as specified by the department), or an honours program (successful completion of 40 to 48 term courses as specified by the department). Following the completion of year one, students may declare a general or honours major. Co-operative programs leading to an Honours Bachelor of Arts degree are available in almost all honours arts disciplines.

Students in an honours program may have a minor concentration consisting of 10 term courses successfully completed in a second discipline or thematic area. Joint honours programs are available. There are no double majors or minors in the general program. Options are available with a general or honours program.

General and honours majors and options available are listed under specific subject areas.

An arts student may also graduate with a general arts degree (non-major) upon completion of 30 term courses as specified by the faculty.

*Admission requirements*

Students applying for admission to year 1 regular, honours co-op applied studies, or honours co-op or regular accountancy studies are required to present six Grade 13 or OAC credits, including English. All first-year Faculty of Arts programs have limited enrolment and, in recent years, most students admitted to arts regular have had averages of 70% or better, while most students admitted to honours co-op applied studies and honours co-op or regular accountancy have had averages of 75 to 80% or better. Applicants to all categories with lower averages may be admitted on the basis of other indicators. Preference is given to applicants who have at least two arts-related Grade 13 or OAC courses. These include English, history, languages, geography, dramatic arts, family studies, music, and visual arts. Applicants considering majors in accounting should take university-entrance level courses in algebra and calculus. A mathematics course is recommended for applicants considering a social science program such as economics, geography, or psychology.

*First-year program*

In year 1, students usually select an exploratory program of 10 to 12 term courses. At the end of year 1 and depending upon performance in year 1 courses, students may proceed to regular general or honours major programs or into departmental co-op programs that are available with an honours major in one of the following: anthropology, applied economics, English, political science, political science (administrative studies option), psychology, or sociology.

Students admitted to arts co-op applied studies select 12 term courses in first year, six of which are required by applied studies. At the conclusion of year 1, and on the basis of performance in year 1 courses, applied studies co-op students select an arts honours major in almost any of the disciplines in the humanities, languages, fine and performing arts, or social sciences. Students intending to take the arts administration specialization must complete the first year in applied studies co-op. As well, students admitted to year 1 arts co-op may choose to proceed into a regular general or honours program or into one of the departmental co-op programs listed above.

Students applying to arts co-op accountancy studies will be admitted to either honours co-operative chartered accountancy studies or honours co-operative management accountancy studies. Students applying to arts regular accountancy studies may proceed in regular honours chartered accountancy studies or regular honours management accountancy studies. Students in either co-op accountancy studies program select 12 term courses in year 1 (six in each term) as specified by accounting. Students considering entering the combined honours B.A. in accounting and master's in accounting degree may enrol in any regular or co-op accountancy studies program or in any other university program that permits completion of the prerequisite university courses.

*Science programs*

The Faculty of Science operates under the credit system, where student progress is measured in terms of credits completed.

The three-year general science program requires a total of 15 credits. It is not necessary that a student designate a major subject.

The honours programs in science normally require a minimum of 22 credits with or without a specialization.

Applicants must present six Grade 13 or OAC credits, including two science credits from biology, chemistry, and physics; calculus; and one mathematics credit from Grade 13 algebra, OAC algebra and geometry, Grade 13 relations and functions, or OAC finite mathematics.

Students planning to major in biology or the earth sciences/geography programs must include university-entrance level chemistry. Those planning to major in any chemistry, biochemistry, optometry, or other earth science programs must include both university-entrance level chemistry and physics. Students planning to major in physics programs must include university-entrance level physics.

Applicants to all science programs should select both university-entrance level chemistry and physics courses. A course requiring writing skills would be an asset. For co-operative applied chemistry and physics, university-entrance level Grade 13 relations and functions or OAC finite mathematics and Grade 13 algebra or OAC algebra and geometry are both recommended. For the geophysics option within co-op applied earth sciences, university-entrance level Grade 13 algebra or OAC algebra and geometry is recommended.

### Agricultural and Biological Sciences

**• Bachelor of Science**

*Four-year honours*

Available in: biology, (biotechnology option), biochemistry, biology and environment and resource studies.

*Admission requirements*

See *Admission Requirements* , "Science programs".

### Engineering and Applied Sciences

**• Bachelor of Applied Science**

The Bachelor of Applied Science degree is offered through the Faculty of Engineering. Seven honours programs in engineering are available: chemical, civil, computer, electrical, geological, mechanical, and systems design. All programs are offered in the co-operative system of study. The Bachelor of Applied Science program is four and two-thirds years in length. In the first year, programs are designed to prepare the student for specialized work in advanced years of the seven different programs. The first-year programs are sufficiently similar that a student can apply to transfer into the second year of a different program. In some cases, make-up work is required.

*Admission requirements*

Students who study mathematics from the Grade 13 curriculum guidelines are required to present six Grade 13 or OAC credits including Grade 13 algebra, Grade 13 calculus, Grade 13 relations and functions, chemistry, and physics. Students who study mathematics from the OAC curriculum guidelines are required to present six Grade 13 or OAC credits including OAC algebra and geometry, OAC calculus, chemistry, physics, and English.

The sixth credit for admission should be a subject requiring literary and writing performance, such as English, history, or geography. In recent years most students admitted have had averages of 75% or better; however, a number of students with lower averages are admitted when other evidence indicates an aptitude and interest in engineering or extensive participation in extra-curricular activities.

Applicants lacking one or two of the five specified courses, but whose average is more than 85%, should contact the admissions officer no later than January (for September admission). Applicants will be evaluated and advised on the possible courses of action required to meet our specific requirements. First-year enrolment is limited to approximately 650 students.

### Fine and Applied Arts

**• Bachelor of Arts**

*Three-year general (with major)*

Available in: drama and theatre arts, fine arts (studio, history, film studies options), music.

**• Bachelor of Arts**

*Four-year general*

Available in: drama and fine arts (options in studio, art history).

**• Bachelor of Arts**

*Four-year honours (regular, applied studies co-op, or applied studies co-op – arts administration specialization).*

Available in: drama and theatre arts, fine arts (options in studio, history, film studies), music.

*Admission requirements*

See *Admission Requirements* , "Arts Programs".

## Health Professions and Medical Sciences

**• Doctor of Optometry**

This is the only English-language optometry program in Canada. Students may apply to enter after a minimum of one year of a science program, although the majority of applicants are accepted after two or more years of university. It is a four-year professional program, and because enrolment is limited to 60 students per year, applications to the first professional year are considered on a competitive basis involving academic and non-academic selection criteria. Graduating students receive a Doctor of Optometry degree (O.D.). The program is accredited by the Council of Education of the American Optometric Association.

*Admission requirements*
See *Admission Requirements*, "Science programs".

## Humanities and Related Courses

**• Bachelor of Arts**

*Three-year general (with major)*
Available in: classical studies, English, French, German, Greek, history, Latin, medieval studies, philosophy, religious studies, Russian, Spanish.

**• Bachelor of Arts**

*Four-year general (with major)*
Available in: classical studies, English, French, history, philosophy, religious studies, Spanish.

**• Bachelor of Arts**

*Four-year honours (regular, applied studies co-op, applied studies co-op – arts administration specialization)*
Available in: classical studies, English, French, German, history, Latin, medieval studies, philosophy, religious studies, Russian, Slavic studies, Spanish.

*Admission requirements*
See *Admission Requirements*, "Arts programs".

**Interdisciplinary options or minors**
Canadian studies, gerontology, Iberoamerican studies, legal studies, management studies, Middle East studies, peace and conflict studies, personnel and administrative studies, society, technology and values, studies in personality and religion, and women's studies are options/minors that may be combined with general and honours programs. Please consult the university calendar for details.

*Admission requirements*
See *Admission Requirements*, "General (for all programs)".

## Mathematical and Physical Sciences

**• Bachelor of Mathematics**

*Academic programs available*
The Faculty of Mathematics consists of the Departments of Applied Mathematics, Combinatorics and Optimization, Computer Science, Pure Mathematics, Statistics and Actuarial Science, and a Division of Mathematics for Industry and Commerce.

The Faculty of Mathematics offers undergraduate programs leading to the following Bachelor of Mathematics degrees: B.Math. Honours, B.Math. General, B.Math. Pass. The honours program is designed primarily for full-time on-campus students who wish to pursue in-depth studies in the mathematical sciences. The general program is more suitable for students with a definite interest in mathematics but who prefer more latitude in the depth and breadth of their course selection. The general program is also intended primarily for full-time on-campus students. The pass program, by comparison, is a relatively non-specialized course of study intended primarily for part-time students, usually studying in the correspondence format, who want to pursue a more general education and include a larger proportion of non-mathematics courses in their program. The pass and general programs are available only to students in the regular system of study.

All full-time on-campus freshmen take a common core honours program in year 1, consisting of algebra, calculus, and computer science, plus three non-mathematics courses. This commonality of curriculum (which continues to a large extent into year 2) permits considerable flexibility for students to change from one academic program to another within the Faculty of Mathematics. In fact, if non-mathematics courses are judiciously chosen, this flexibility for change can be extended to many programs in other facilities as well.

The honours program is more demanding than either the general or pass program. In addition to requiring that honours (or advanced honours) versions of faculty core courses be taken, the required number of credits for an honours degree is greater than the number for either a general or pass degree. Further, the honours program requires higher graduating averages than the general and pass programs. Honours programs are available in both the regular (*i.e.,* conventional September to April academic year) and co-operative (*i.e.,* alternating four-month academic and work terms) systems of study, with the exception of a small number of programs available only in the co-operative mode. The academic requirements of corresponding co-operative and regular programs are identical. The pass and general programs are not available in the co-operative system. Students may also register in mathematics programs through St. Jerome's College.

The following departmental honours programs are available: actuarial science, applied mathematics, co-op applied mathematics with engineering electives, combinatorics and optimization, computer science, co-op computer science with electrical engineering electives, co-op computer science/information systems option, operations research, pure mathematics, statistics, and applied statistics with engineering electives. Joint honours programs combining computer science with applied mathematics, business administration, chartered accountancy, combinatorics and optimization, management accounting, pure mathematics, or statistics are also available. As well, students may enrol in various double honours combinations, both within the Faculty of Mathematics and with academic disciplines in other faculties.

The following mathematics programs with specialized options are also available: mathematics/business administration, mathematics/chartered accountancy, mathematics/management accounting, mathematics/teaching.

The constantly increasing complexity of business organizations has created a demand for persons trained in analysing business and accounting problems from a mathematical point of view. To help meet this demand, the Faculty of Mathematics, in co-operation with the the Division of Mathematics for Industry and Commerce, the School of Business and Economics at Wilfrid Laurier University, the Departments of Economics and Management Sciences, and the School of Accountancy at Waterloo, offers unique programs combining mathematics with business administration, chartered accountancy, and management accounting. Each of these is designed so that students gain an appreciation of the applications of mathematics to commerce and gain experience in areas such as banking, marketing, production control, accounting, auditing, etc. These options are all available at the honours level in both the regular and co-operative systems of study. A general-level business administration option is available, but only in the regular system of study.

The mathematics/accounting programs are offered in co-operation with the Institute of Chartered Accountants of Ontario and the Society of Management Accountants of Ontario. Graduates of these programs will normally have completed all formal university course work required to write the National C.A. Institute's uniform final examinations. In addition, successful completion of the mathematics/accounting programs will normally qualify a student for 16 CMA (Certified Management Accountant) course exemptions and to write four of the Society's six uniform rational examinations required for CMA certification.

Co-operative work terms are accepted by both the institute and the society as part of their respective internship requirements. Thus, co-op graduates of the mathematics/accounting programs are normally able to complete all institute or society requirements within one year of graduation. Graduates of the regular program are frequently able to complete all such requirements within two years of graduation.

Graduates of the programs offered by the Division of Mathematics for Industry and Commerce will be equipped to continue with a postgraduate level of education in subjects related to business and management. Recently a linkage program has been established with the School of Business and Economics at Wilfrid Laurier University that will permit graduates to obtain an M.B.A. degree in as little as one year following completion of the honours B.Math. degree.

The Faculty of Mathematics also offers a co-operative teaching option. This is a uniquely integrated program involving the Faculty of Mathematics and the Faculty of Education at the University of Western Ontario. The program combines a sound academic program in mathematics, co-op work experience in business and industry, teaching experience in Ontario secondary schools, and professional training in education. Graduates obtain a B.Math. degree from Waterloo and a B.Ed. degree from Western, and they emerge as fully qualified secondary school mathematics teachers in Ontario.

Students interested in the teaching option should enrol in any one of the Faculty of Mathematics non-teaching co-operative programs in the first year. Candidates for admission to the teaching option are considered in year two on the basis of first-year academic and work-term performance and success in an interview process.

For students who wish to have breadth of mathematics studies at the honours level rather than specialization, the faculty also offers a non-specialist honours program. Students select a wide variety of courses from the complete spectrum of departmental offerings. Graduates of this program will be prepared either for careers in the applications of mathematics or for graduate studies. By choosing appropriate courses, a student should be eligible to proceed from this program to graduate work in any area of mathematics.

*Faculty admission requirements*
To be eligible for admission consideration, applicants are required to have a minimum of six Grade 13 or OAC credits, with a minimum grade of 60% in each of the required mathematics courses. Applicants studying mathematics from the Grade 13 curriculum guidelines must include algebra, calculus, and relations and functions in their six credits. (Students with high overall academic standing, but who are missing one of the three specified mathematics requirements, may be considered for admission by contacting the Assistant Registrar, Faculty of Mathematics.) It is recommended that at least one of the six credits be a subject requiring literary and writing performance such as English, history, or geography. Applicants studying mathematics from the OAC curriculum guidelines must include algebra and geometry, calculus, and English in their six credits.

The admissions committee makes every effort to ensure that those students who are best prepared are admitted. It is recognized that school grades are the primary indicator of preparedness, and the majority of admitted students have averages of 75% or higher. The admissions committee also gives close attention to evidence indicating an exceptional aptitude and interest in mathematics, teachers' recommendations, performance in the Descartes Mathematics Contest, and involvement in extracurricular activities. Any combination of these may considerably enhance an applicant's possibility of admission. Students not offered admission to the program of their choice are considered for all other mathematics programs.

All applicants to the Faculty of Mathematics are provided with a supplementary information form as part of the package of materials sent by the university to acknowledge their application for admission. Applicants must return this completed form to ensure that the admissions committee can make an informed decision. Often the information provided on the form allows the committee to differentiate between applicants whose marks are relatively comparable when viewed in isolation.

*Admission to specialized programs*
Students admitted to the Faculty of Mathematics identify with a specific program within the faculty at different year levels, depending upon admission category and particular program of interest. The only students admitted to specialized honours programs in year 1 are co-op students who wish to register in one of the following programs: actuarial science, applied mathematics with engineering electives, mathematics/chartered accountancy, or mathematics/management accounting. These co-op students are identified at the beginning of year 1 because of the specialized nature of the work-term employment involved.

All other mathematics students register in the non-specialist honours program in year 1. In subsequent years, beginning with year 2, students may elect to enter a specialized program or choose to remain registered in the non-specialist honours program. For many specialized honours programs, admission at the year 2 level is normally automatic for students who have successfully completed year 1. However, in the case of restricted enrolment programs, there is a formal admission process. Academic performance in first year and/or the results of personal interviews are normally the main criteria for admission to restricted enrolment programs.

*Restricted enrolment mathematics programs*
At present, the restricted enrolment programs in the Faculty of Mathematics are: co-op math/chartered accountancy, co-op math/teaching option, and all computer science major programs. In the foreseeable future, the faculty does not expect that any of its programs not included in the above list will require a formal admission process beyond that involved in admission to the Faculty of Mathematics. However, because of limited resources and varying demands, it is always possible that occasions may arise when other specific programs within the faculty are not able to accommodate all academically qualified applicants. Every effort will be made to avoid such situations and to provide acceptable alternatives, but the faculty cannot guarantee in advance that any specific program will be free of enrolment restrictions. Programs that have had (or are likely) to restrict enrolment will be identified on an ongoing basis, and every reasonable effort will be made to publicize such changes to those students who may be affected.

*Applicants holding student authorizations*
A maximum of 5% of the available freshman seats in the Faculty of Mathematics are open to qualified applicants who hold student authorizations (visas). Please note that this quota on foreign student enrolment does not apply to permanent residents in Canada (landed immigrants). This same 5% quota applies to all restricted-enrolment mathematics honours programs for which formal admission occurs beyond first year (*e.g.*, computer science major programs). By taking this approach the faculty hopes to preserve an appropriate international mix in its undergraduate student population while reponding to the demand for places from highly qualified Canadian students.

For more detailed information, please consult the university undergraduate calendar and/or contact the Assistant Registrar, Faculty of Mathematics.

### • Bachelor of Science

*Four-year honours*
Available in: biochemistry, chemistry (options in environmental studies, mathematics, physics), physics (variety of options).

*Admission requirements*
See *Admission Requirements*, "Science programs".

## Social Sciences and Related Courses

### • Bachelor of Arts

*Three-year general (with major)*
Available in: anthropology, classical studies*, economics, geography†, history*, medieval studies*, political science, psychology, social development studies (Renison College), sociology.

### • Bachelor of Arts

*Four-year general (with major)*
Available in: anthropology, economics, geography, political science, psychology (early childhood education option), sociology.

### • Bachelor of Arts

*Four-year honours (regular, applied studies co-op, applied studies co-op – arts administration specialization)*
Available in: anthropology, classical studies*, economics, geography†, history*, medieval studies*, political science, political science (administrative studies option), psychology, psychology (early childhood education option), social development studies (Renison College), sociology.

### • Bachelor of Arts

*Four-year honours*
Available in: accounting, chartered accountancy studies, management accountancy studies.

A combined honours B.A. in accounting and master's degree in accounting (MACC) has received special status from the Institute of Chartered Accountants of Ontario and from the Society of Management Accountants of Ontario. Graduates of this program will proceed directly to write the Uniform Final Examinations (CA) or the Final Accreditation Examinations (CMA).

Co-operative work terms are accepted by both the institute and the society as part of their respective internship requirements. Thus, co-op graduates are able to complete all institute or society requirements in as little as one year after graduation. Graduates of the regular program are able to complete all such requirements in as little as two years after graduation.

### • Bachelor of Environmental Studies

The Faculty of Environmental Studies is comprised of two professional schools (School of Architecture and School of Urban and Regional Planning) and two academic departments (Department of Environment and Resource Studies and Department of Geography).

Students may be granted a Bachelor of Environmental Studies degree in the following programs: honours in environment and resource studies – four years, four and two-thirds years co-op system; honours geography – four years, four and two-thirds years co-op system; major in geography (general degree) – three years or four years; honours in urban and regional planning – four years, four and one-third years co-op system; architecture (pre-professional program) – three and one-third years co-op system.

The professional Bachelor of Architecture degree is granted after two and two-thirds additional years of study following the completion of the Bachelor of Environmental Studies/Architecture pre-professional program. The professional Bachelor of Architecture program is on the rotating work/study co-op system only.

*Admission requirements*
Applicants to environment and resource studies or geography must present six Grade 13 or OAC credits including English. It is recommended that students present at least one Grade 13 or OAC credit in mathematics for admission to programs in environmental studies.

Calculus is preferred for the urban and regional planning program. University-entrance level geography is recommended for the geography program. University-entrance level science is recommended for the environment and resource studies program.

For specialization in architecture, students must present six Grade 13 or OAC credits including calculus, English (français), functions and relations or finite mathematics, and physics.

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*For the purposes of the University of Waterloo, this course falls under the humanities heading.

†Students may also pursue a geography program through the Faculty of Environmental Studies.

Selected applicants to the architecture program are normally required to attend an interview at the university. Admission is based on the results of the interview (including a required portfolio), an English writing exercise designed to test skills of analysis and expression, and secondary school achievement.

**• Bachelor of Science**

*Four-year honours*
Available in: liberal science, psychology, science (non-specialized), science and business.

*Admission requirements:*
See *Admission Requirements*, "Science programs".

**Special Programs**

**• Bachelor of Arts**

*Honours co-operative program*
The honours applied studies co-op program allows students to select an honours major in almost any discipline in the faculty, including anthropology, classical studies, drama and theatre arts, economics, English, fine arts, French, German, history, Latin, medieval studies, philosophy, political science, psychology, religious studies, Slavic studies, sociology, or Spanish. Courses in management and administration, communications, computer science, and Canadian issues are included in the applied studies program. Students may enter the arts administration specialization (for specific training and experience in the management of fine and performing arts organizations) from applied studies.

*Admission requirements*
See *Admission Requirements*, "Arts programs."

**• Bachelor of Science**

*Honours co-operative programs*
Five programs that begin in first year are offered under the co-operative system of study: co-op biology, co-op biochemistry, applied chemistry, applied earth sciences (geology and geophysics), and applied physics (also with geophysics option). These programs provide the student with the sound academic training and practical experience normally gained in industry and governmental agencies.

*Admission requirements*
See *Admission Requirements*, "Science programs".

*Honours science and business, Liberal science*
Honours science and business is a four-year honours degree; liberal science (science for generalists) is a four-year honours or three-year general degree.

*Admission requirements*
See *Admission Requirements*, "Science programs".

**• Bachelor of Independent Studies**
The Independent Studies program provides students with the opportunity to create, structure, and pursue their own studies using the resources of the university and the community. The program may include a combination of independent research, course work, seminars, tutorials, special projects, and field work.

The B.I.S. degree is awarded on the basis of the recommendation of supervisors (including two university faculty), appointed by the Academic Board for Independent Studies, which evaluates the student's program during a concluding two-term candidacy period.

Applicants (with or without a formal background) are expected to show strong aptitude for self-direction and the ability to flourish in an unstructured academic setting.

**• Bachelor of Arts (Dance), Bachelor of Science (Health Studies), Bachelor of Science (Kinesiology), Bachelor of Arts (Recreation and Leisure Studies)**
The Faculty of Human Kinetics and Leisure Studies offers four different honours programs. The dance program is available only under the regular system. The health studies, kinesiology, and recreation and leisure studies programs may be studied under either the regular or the co-op system.

The regular honours programs are four years in length, and the honours co-op programs are four and two-thirds years in length. A three-year general program in dance and a four-year general program in kinesiology are also available.

The dance program is devoted to the analysis of the phenomenon of dance rather than being a training program for future performers. Students are able to specialize in teaching, choreography-notation, and ethnology, which lead to interesting career possibilities. Dance technique courses may be taken in ballet and modern dance.

The health studies program offers students the opportunity to study and participate in the Canadian health-care system outside the framework of the traditional health professions. Particular emphasis is placed on training students for careers in health promotion and education, prevention of disease, and modification of personal lifestyles to improve health. Areas of specialization include health promotion, environmental health, biomedical studies, and health administration.

Kinesiology is defined as the scientific study of human movement. A wide spectrum of movement problems related to health and performance in the environments of work, daily living, exercise, sport, and rehabilitation are examined. The unique blend of theoretical, laboratory, and practical courses and experiences allows students to specialize in such areas as kinesiology in the workplace, rehabilitation, sports medicine, exercise management, and special testing.

The recreation and leisure studies program studies the phenomena of leisure and recreation by examining human behaviour, resource use, social issues, and public policy. Students may specialize in areas such as business and management, cultural recreation, human development and therapeutic recreation, leisure and the humanities, outdoor recreation and parks, tourism and commercial recreation, and urban and municipal recreation. A number of options and minors are available, including business, public administration, management studies, music, geography, and much more.

*Admission requirements*
It is recommended that applicants to the general and honours Bachelor of Arts program in dance should include English and history in their university-entrance level programs. Auditions are required for appropriate placement in technique courses only.

Applicants to the health studies program are required to have six Grade 13 or OAC credits, including biology and chemistry.

Applicants to the kinesiology program who have studied Grade 13 mathematics are required to have six Grade 13 or OAC credits including chemistry, one other science course from biology or physics, and one mathematics course from Grade 13 algebra, calculus, or relations and functions. Those applicants who have studied OAC mathematics are required to have chemistry, one other science course from biology or physics, and OAC calculus.

Applicants to the recreation and leisure studies program are required to have six Grade 13 or OAC credits. It is recommended that applicants include one university-entrance level mathematics course from algebra, calculus, functions and relations, or finite mathematics.

## University of St. Jerome's College

The University of St. Jerome's College, federated with the University of Waterloo, is located in the heart of the university campus, and offers programs in liberal arts and mathematics. Students earn University of Waterloo degrees. Undergraduate students may register in regular and departmental co-operative programs in arts and in all regular and co-op programs in mathematics through the college. St. Jerome's offers a unique perspective in its own wide range of courses, and its students enjoy both the benefits of a large university and the advantages of being part of a smaller college community. Thirty full-time and six part-time professors comprise the college's faculty. Students can live in St. Jerome's men's or Notre Dame women's residences and participate in many social and athletic activities on campus. A generous scholarship program is available to all applicants who register in arts or mathematics at St. Jerome's.

## Renison College

Renison College offers men and women life in a small residential community combined with the resources of the larger university.

*Courses leading to a Bachelor of Arts degree are available in two areas:*
a) social development studies, featuring interdisciplinary work in interdisciplinary social science, psychology, social work, and sociology. Developed for persons interested in the helping professions, this program has been used as a preparation for careers and graduate studies in social work and as a background for studies in education, theology, law, and journalism.
b) general arts, including courses in arts, English, fine arts, geography, psychology, religious studies, and sociology.
The college also offers a diploma and certificates in social work.

## Conrad Grebel College

Conrad Grebel College is a Mennonite-related residential and teaching college affiliated with the University of Waterloo. A faculty of fourteen offer university credit courses in arts, history, philosophy, religious studies, sociology, and peace and conflict studies. In addition, the college provides the full music program for the University of Waterloo. The residence program emphasizes a responsible and caring community and encourages Christian values. In addition to accommodating 113 students in residence, the college also provides an associate student program for students unable to live in residence but wishing to relate to the college.

## St. Paul's College

St. Paul's United College is a small teaching and residential community. It offers a number of university credit courses in religious studies and Canadian studies. For more information about these programs, refer to the appropriate sections in the undergraduate calendar of the university.

Residence life provides a valuable contribution to student life at the university. Through a program of athletics, community dinners, social activities, student counselling, and student government, residents in the college and associate members participate in a vital and enriching community experience.

**Residence 1987-88**
Student Village I and II $1 800 (single), $1 675 (double)
Conrad Grebel College $1 665 (double)
Renison College $1 795 (single), $1 668 (double)
St. Jerome's College $1 650 (double), $1 820 (semi-private)
Notre Dame College $1 747 (single) $1 600 (double) (no meals Saturdays)
St. Paul's College (double) approximately $1 675
The above fees are for a four-month academic term. All rates include meals.

**Tuition Fees**
(The following possible total undergraduate fees for Canadian citizens and permanent residents are for a four-month academic term, including incidental fees. They have not been given final approval.)
Architecture – year one $848.23; upper year co-op $1 111.04
Arts regular $788.23; accountancy studies regular $813.23; accountancy studies PAS* $813.23; co-op $1 051.04; accountancy studies co-op $1 076.04
Engineering $1 144.54
Environmental studies regular $789.23; co-op $1 052.04
Human kinetics and leisure studies regular $786.23; co-op $1 049.04
Independent studies $766.23
Mathematics
  computer science $816.23
  regular other $771.23
  co-op computer science $1 079.04
  co-op other $1 034.04
Optometry $850.23
Science regular $791.23; co-op $1 054.04

**Further Information**
*Inquiries concerning admission requirements and student awards should be directed to*
Ms. Norma S. Walker
Director of Admissions and Student Awards
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 2265

*Director of Secondary School Liaison*
Mr. Stephen J. Little
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 6050

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*The Professionally Accredited Stream (PAS) of this program requires an additional internship fee of $150 per term.

# University of Western Ontario

## London

**President: K.G. Pedersen**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 18 407 | 1 866 |
| Part-time | 5 677 | 597 |

**Faculties, Schools, and Institutes**
Faculty of Applied Health Sciences
Faculty of Arts
Faculty of Dentistry
Faculty of Education
Faculty of Engineering Science
Faculty of Graduate Studies
Faculty of Law
Faculty of Medicine
Faculty of Music
Faculty of Nursing
Faculty of Part-Time and Continuing Education
Faculty of Physical Education
Faculty of Science
Faculty of Social Science
Graduate School of Journalism
School of Business Administration
School of Library and Information Science

**Affiliated Colleges**
Brescia (Roman Catholic), Huron (Anglican), and King's (Roman Catholic).

**General Admission Requirements**
1)Enrolment in first year is limited, and admission to Western is competitive.
2) Western will accept first-year students up to its maximum capacity. Applicants seeking admission from Grade 13 will require a minimum of six Grade 13 credits approved by the Ministry of Education in accordance with Circular H.S.1 and the university. Applicants presenting the OSSD must include a minimum of six OACs.
3) Early provisional offers of admission are based on the applicant's Grade 13 or OAC interim average.
5) The applicant must provide evidence of proficiency in English if English is not the first language. The university reserves the right to deny admission to applicants who cannot provide proof of English proficiency, regardless of academic qualifications.
6) An offer of admission will be withdrawn if the student's final average is less than 60%.

**Subject Area Requirements**
In addition to the general requirements, the following specific Grade 13 or OAC courses are required or recommended for entry to particular first-year programs. (For programs not listed below, check under the specific program listing for admission requirements.)

*Arts*
English and a second language are strongly recommended. Specific programs may have their own admission requirements (Grade 13 or OAC).

*Physical education*
Three-year program – Grade 13 biology is recommended. Four-year program – if Grade 13 biology is not taken, then biology 021 must be in-

cluded in first year. Grade 12 or 13 mathematics and Grade 11 or 13 physics are strongly recommended for both programs. For applicants presenting the OSSD, Grade 13 biology is recommended. Grade 12 (preferably advanced level) or an OAC mathematics and Grade 11 or 13 physics are strongly recommended. Following approval of OACs in the above subject areas (excluding mathematics), specific entry requirements will be stated for OAC courses.

*Science*
Grade 13 calculus and Grade 13 functions and relations are required. For applicants presenting the OSSD, OAC calculus and OAC algebra and geometry are required.

*Social science*
English is strongly recommended, and a second language is valuable. Students interested in economics, geography, psychology, and sociology are strongly urged to complete at least two credits in mathematics, including calculus, and to explore computer science. Grade 13 calculus and functions and relations or OAC calculus and OAC algebra and geometry are required for entry into any 020-level calculus course.

*Visual arts*
Languages other than English are strongly recommended for those concentrating in art history (Grade 13 or OAC).

**Limited Enrolment**
The following upper-year programs have limited enrolment: business administration, communicative disorders, computer science, dentistry, law, medicine, post-R.N. nursing, occupational therapy, physical therapy, social work.

To meet its educational objectives while maintaining an appropriate university environment for incoming students, Western's senate has established an enrolment ceiling of 4 000 for entering full-time first-year students. Space in each program is limited, admission each year is competitive, and the minimum admission average may vary each year.

All first-year programs have limited enrolment and are divided into the following groups:

| Program | Spaces |
|---|---|
| Arts (incl. Visual Arts) | 1 793 |
| Physical Education | (incl) |
| Social Science | (incl) |
| Admin/Comm Studies | 325 |
| Engineering | 275 |
| Music | 150 |
| Nursing | 60 |
| Occupational Therapy | 37 |
| Science | 1 360 |

In addition the affiliated colleges have the following enrolment ceilings for entering full-time first-year students:

| | |
|---|---|
| Brescia College | 215 |
| Huron College | 250 |
| King's College | 480 – 500 |

**Agricultural and Biological Sciences**

**• Bachelor of Science**

*Three-year general*
Available in: biology, biology and chemistry (combined).

**• Bachelor of Science**

*Four-year honours*
Available in: biochemistry, biology, biophysics, cell biology, ecology and evolution, genetics, microbiology and immunology (combined), plant sciences, zoology.

*Admission requirements*
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

**Education/Physical Education/Recreation**

**• Bachelor of Arts**

*Three-year general/four-year honours*
Available in: physical education.

*Admission requirements*
See *General Admission Requirements* and *Subject Area Requirements*, "Physical education".

**• Bachelor of Education**
*One-year program.*

*Admission requirements*
Applicant must have a university degree.

**Engineering and Applied Sciences**

**• Bachelor of Engineering Science**
Four years beyond senior matriculation. Specialization chemical and biochemical (combined), civil, electrical, materials, mechanical engineering.

*Admission requirements*
Six Grade 13 credits including calculus, functions and relations, and two credits from algebra, chemistry, and physics. It is strongly recommended that all five of these credits be included. For applicants presenting the OSSD, OAC calculus and OAC algebra and geometry are required. In addition, Grade 13 chemistry and physics are required. It is anticipated that OAC chemistry and OAC physics will be required following a review of the approved OACs in these subject areas. See also *General Admission Requirements* .

**Fine and Applied Arts**

**• Bachelor of Arts**

*Three-year general*
Available in: film (arts), music, visual arts.

**• Bachelor of Arts**

*Four-year honours*
Available in: art history and criticism (visual arts), English and drama (arts), music, visual arts.

*Admission requirements*
Arts – see *Subject Area Requirements*, "Arts".
Dance – see *Subject Area Requirements*, "Physical education".
Music – a satisfactory audition and informal interview are required.
Visual arts – see *Subject Area Requirements*, "Visual arts".
See also *General Admission Requirements* for general requirements for all programs.

**• Bachelor of Fine Arts**

*Four-year honours*
Available in: studio arts.

*Admission requirements*
See *General Admission Requirements*, and *Subject Area Requirements*, "Visual arts".

**• Bachelor of Music**

*Four-year honours*
Available in: music education, music history, performance (any standard orchestral or band instrument, guitar, piano, organ, harpsichord, harp, or voice), theory and composition (combined).

**• Bachelor of Musical Arts**

*Three-year general*
Available in: music education, performance.

Note: The Faculty of Music also offers a one-year and a three-year Artist Diploma in Performance. With the exception of the Artist Diploma program, the first year of each program is common, with specialization beginning in second year.

*Admission requirements*
a) six Grade 13 credits or six OAC courses, one of which may be music or the equivalent conservatory certificate.
b) satisfactory audition on the principal instrument (any standard orchestral or band instrument, guitar, piano, organ, harpsichord, harp, or voice) of at least conservatory Grade 8 standard (keyboard performers and those intending to major in performance should be above this level), scales and other technical exercise, sight reading, and sight singing. For the three-year Artist Diploma program the audition should demonstrate a performance level of at least a conservatory Grade 10 standard, and show evidence of exceptional performance ability before a jury.
c) informal interview, for which no special preparation is necessary.
d) Piano requirement (for those whose principal instrument is not keyboard) of an approximate Grade 6 conservatory level. Otherwise successful applicants who cannot meet this requirement must satisfy it prior to entry into second year. Students requiring instruction must make their own arrangements at their own expense.

The Faculty of Music also offers a one-year Artist Diploma in Performance for those who possess a Bachelor of Musical Arts (Performance) degree or its equivalent, and who complete a satisfactory audition on the principal instrument (any standard orchestral or band instrument, piano, organ, harpsichord, harp, or voice) of at least Conservatory Associateship standard, and show evidence of exceptional performance ability.

Note: Students must arrange an audition by contacting the Faculty of Music early in 1988.

**Health Professions and Medical Sciences**

**• Bachelor of Science**

*Four-year honours*
Available in: history of science, pharmacology and toxicology (combined), physiology, physiology and pharmacology (combined), physiology and psychology (combined).

*Admission requirements*
See *General Admission Requirements* and *Subject Area Requirements*, "Science".

**•Bachelor of Science in Nursing**
*Three-year program (for registered nurses)*

**•Bachelor of Science in Nursing**

*Four-year program*
This program qualifies graduates to apply for registration with the College of Nurses of Ontario.

*Admission requirements*
Six Grade 13 credits, which must include 60% in chemistry and biology, are required. Grade 12 mathematics is also required. For applicants presenting the OSSD, OAC calculus and OAC algebra and geometry are recommended. Grade 12 mathematics at the advanced level is required. Grade 13 chemistry and Grade 13 biology are required. Following approval of OACs in the above subject areas, specific entry requirements will be stated for OAC courses.

**•Doctor of Dental Surgery**
Students who are in or who have successfully completed a second-year program at Western, or an equivalent second year at another university, provided that the program has included a minimum of four honours courses or equivalent (as interpreted by Western) within the first 10 courses completed, are eligible to apply for admission to the first year of the four-year program in the Faculty of Dentistry. All applicants must have successfully completed one full laboratory course in each of biology, chemistry, physics, and organic chemistry.

One position is available for a student supported by the Canadian International Development Agency or a similar agency.

**•Doctor of Medicine**

*Requirements for admission to the Doctor of Medicine program*
Admission to the first year of the four-year program in the Faculty of Medicine is based on successful completion of a second-year program at an Ontario university, provided that the program has included a minimum of four honours courses or the equivalent (as interpreted by Western) within the first 10 courses (five in each year) attempted. All applicants must have successfully completed one full laboratory course in each of biology, chemistry, and physics, have demonstrated competence in organic chemistry to the level of the first full course in organic chemistry offered at Western, and have obtained credit for at least two courses from the Faculties of Arts and Social Science, one of which must be a course in literature (English or history if the applicant does not have Ontario Grade 13 or equivalent). (The literature or history component will not be a requirement until 1988.)

Applications will not be accepted from applicants who are not Canadian citizens or permanent residents. (Two positions may be available for students supported by the Canadian International Development Agency.)

**•Bachelor of Science in Communicative Disorders (given through the Faculty of Applied Health Sciences).**

*Four years*
Enrolment is limited. Degree granted:
B.Sc. (C.D.).

*Admission requirements*
Grade 13 or year I biology, OAC calculus, OAC algebra and geometry, and a preparatory year in the Faculty of Science or the Faculty of Social Science are required. During this year students are required to take courses in psychology and mathematics. Courses in biology and anthropology are also recommended. Following approval of OACs in appropriate subject areas above, specific entry requirements will be stated for OAC courses. See also *General Admission Requirements* .

**•Bachelor of Science in Occupational Therapy (given through the Faculty of Applied Health Sciences)**

*Four years*
Enrolment is limited. Degree granted:
B.Sc. (O.T.).

*Admission requirements*
Grade 13 biology required, and OAC calculus and OAC algebra and geometry strongly recommended. A preparatory year in the Faculty of Science or the Faculty of Social Science is also required. During this year students are required to take courses in psychology, sociology, and biology; they must also select one course from applied mathematics, chemistry, computer science, physics, and mathematics. Following approval of OACs in appropriate subject areas above, specific entry requirements will be stated for OAC courses. See also *General Admission Requirements.*

**•Bachelor of Science in Physical Therapy (given through the Faculty of Applied Health Sciences)**

*Four years*
Enrolment is limited. Degree granted:
B.Sc. (P.T.).

*Admission requirements*
Grade 13 calculus and Grade 13 functions and relations or OAC calculus and OAC algebra and geometry are required. A preparatory year in the Faculty of Science or the Faculty of Social Science is required. During this year students must take courses in biology, physics, and mathematics, as well as one course in either psychology, sociology, or anthropology. Following approval of OACs in appropriate subject areas above, specific entry requirements will be stated for OAC courses. See also *General Admission Requirements* .

**Humanities and Related Courses**

**•Bachelor of Arts**

*Three-year general*
Available in: classical studies, English, film, French, German, Greek, Italian studies, Latin, philosophy, Russian, Spanish, western literature and civilization.

**•Bachelor of Arts**

*Four-year honours*
Available in: classics, English and drama (combined), English language and literature, French language and literature, German language and literature, Greek and Latin (combined), Latin, philosophy, Russian, Spanish language and literature. All these subjects may be combined with most areas of study in the Faculty of Social Science, and philosophy may also be combined with the history of science or mathematices from the Faculty of Science.

*Admission requirements*
See *General Admission Requirements* and *Subject Area Requirements,* "Arts".

**•Certificat de Français Pratique**

*Admission requirements*
Applicants must have Grade 13 French or the practical equivalent. An interview may be required. Applicants lacking Grade 13 French or practical equivalent may take French 002 and/or French 010 at the university to qualify, prior to admission to the diploma program. See *General Admission Requirements* and *Subject Area Requirements,* "Arts".

**Mathematical and Physical Sciences**

**•Bachelor of Arts (given through the Faculty of Science)**

*Three-year general*
Available in: computer science, geology, mathematics, statistics.

**•Bachelor of Arts (given through the Faculty of Science)**

*Four-year honours*
Available in: actuarial science, actuarial science and mathematics (combined), mathematics, mathematics and statistics (combined), statistics.

*Admission requirements*
See *General Admission Requirements* and *Subject Area Requirements* , "Science".

**•Bachelor of Science**

*Three-year general*
Available in: applied mathematics, applied mathematics and computer science (combined), chemistry, chemistry and biology (combined), chemistry and geology (combined), computer science, geology, geophysics, mathematics, mathematics and computer science (combined), mathematics and statistics (combined), physics, physiology and computer science (combined), statistics, statistics and computer science (combined).

**•Bachelor of Science**

*Four-year honours*
Available in: actuarial science, actuarial science and computer science (combined), actuarial science and mathematics (combined), applied mathematics, applied mathematics and computer science (combined), astronomy, chemistry, computer science, computer science and physiology (combined), computer science and statistics (combined), geology, geophysics, geophysics and computer science (combined), mathematics, mathematics and computer science (combined), mathematics and statistics (combined), physics, statistics.

*Admission requirements*
See *General Admission Requirements* and *Subject Area Requirements* , "Science".

**Social Sciences and Related Courses**

**•Bachelor of Arts (given through the Faculty of Social Science)**

*Three-year general*
Available in: administrative and commercial studies (ACS), anthropology, economics, geography, history, political science, psychology, sociology.

*Admission requirements*
Along with the specific requirements listed below, see *General Admission Requirements* .
ACS – Grade 13 mathematics and English are strongly recommended. Effective September

1988, OAC English and OAC calculus and either OAC algebra and geometry or OAC finite mathematics are required.
All other programs – see *Subject Area Requirements* , "Social science".

**• Bachelor of Arts
(given through the Faculty of Social Science)**

*Four-year honours*
Available in: anthropology, anthropology (linguistics specialization), economics, economics with actuarial science option, economics with mathematics option, economics with statistics option, geography, geography (resources conservation), geography (urban development), geography and Spanish, geography with option, history, history and history of science (combined), political science, political science with French option, psychology, psychology and philosophy, psychology and physiology (combined), sociology and combinations of the above. Most of these subjects may also be combined with areas of study in the Faculty of Arts in a combined honours program.

*Admission requirements*
See *General Admission Requirements* and *Subject Area Requirements* , "Social science".

**• Bachelor of Science
(given through the Faculty of Social Science)**

*Four-year honours*
Available in: geography, geography and geology, psychology.

*Admission requirements:*
See *General Admission Requirements* and *Subject Area Requirements* , "Social Science".

**• Bachelor of Arts (Business Administration)**
Students seeking admission to the program in honours business administration may apply after the successful completion of not less than ten courses of university study. However, students must have included three required courses: full introductory university mathematics or computer science, introductory economics, and business 257 (a second-year accounting course). One Ontario Grade 13 or OAC mathematics (or university equivalent) is also required. This program is given through the School of Business Administration.

**• Bachelor of Laws**
Three years following the successful completion of at least two full years beyond Ontario Grade 13/OSSD in a recognized university. Degree preferred.

**• Bachelor of Science (Home Economics)
(given through the Faculty of Science and Brescia College)**

*Three-year general*
Available in: clothing textiles and design, comprehensive, foods and nutrition.

*Four-year honours*
Available in: clothing textiles and design, comprehensive (teaching and related fields), foods and nutrition (specializations in human nutrition, general dietetics, food service management, community nutrition).

*Admission requirements*
Grade 13 courses must include chemistry and biology for the comprehensive and foods and nutrition programs; and chemistry or biology or physics for the clothing textiles and design program. Grade 12 mathematics recommended for all programs. For applicants presenting the OSSD, Grade 12 mathematics is required, preferably advanced level. In addition, Grade 13 biology and chemistry are required for the comprehensive and foods and nutrition programs. Grade 13 chemistry or biology or physics is required for the clothing, textiles, and design programs. English is strongly recommended. Following approval of OACs in the above subject areas, specific entry requirements will be stated for OAC courses.

**• Bachelor of Social Work
(given through King's College)**

*Four-year honours*
The first-year program must include Introduction to Social Work (Social Work 020); two courses from psychology, sociology, political science, history, economics, anthropology, and geography; and one course from English, philosophy, French, or foreign languages. Students must register at King's College for the final three years of the program. Enrolment is limited.

*Admission requirements*
See *General Admission Requirements* and *Subject Area Requirements*, "Arts", "Science", or "Social Science".

## Brescia College

Brescia College is a residential women's college under Roman Catholic auspices, affiliated with the University of Western Ontario. Certain courses are taken at Western or at the other affiliated colleges. All classes in the college are coeducational.

*For further information please contact*
Mrs. M. Hawkins
Registrar
Brescia College
1285 Western Rd.
London, Ontario N6G 1H2
Telephone (519) 432-8353

## Huron College

Admission requirements may differ slightly from Western's. Consult the College Registrar for details.

*For further information please contact*
Miss J. Catherine Ridley
Registrar
Huron College
1349 Western Rd.
London, Ontario N6G 1H3
Telephone (519) 438-7224

## King's College

*For further information please contact*
J. V. Calla
Registrar
King's College
266 Epworth Ave.
London, Ontario N6A 2M3
Telephone (519) 433-3491

**Residence**
The university provides accommodation for approximately 30% of the non-London student enrolment through the residences for single and married students. Approximately 70% of the beds in the "traditional-style" residences are reserved for first-year students. There is also a 400-unit apartment complex for single students, and a 400-unit apartment and townhouse family housing complex. First-year and senior-year applicants who are not attending Western will automatically be sent an application for the "traditional-style" residences if they indicate a requirement for residence on their academic application form. Information may be obtained by writing directly to
The Manager
Residence Admissions Office
Room 126, Somerville House
The University of Western Ontario
London, Ontario N6A 5B8

Note: The Off-Campus Housing Service is located in Room 126, Somerville House, and must be visited in person.

*Westminster College*
Westminster College is a United Church of Canada sponsored residential college for 232 students. For information please write to
Mr. L. Glassford
Dean of Residence
Westminster College
361 Windermere Rd.
London, Ontario N6G 2K3

**Tuition Fees 1986-87
(including incidental fees)**
Faculties of Arts, Science, Social Science, Business Administration, Education, Physical Education, Nursing, Law $1 422.10
Programs in communicative disorders, physical therapy, and occupational therapy $1 422.10
Faculty of Music (includes $150 Instrument Fee) $1 572.10
Faculty of Engineering $1 530.10
Faculty of Dentistry
(first year including dental kit fee) $5 766.10
Faculty of Medicine $1 766.10 (includes supplementary fee of $60 for laboratory equipment)

These fees include a non-academic charge for the University Community Centre, Recreation and Athletic Building, the University Students' Council, athletics, and health services.

**Estimated tuition fees for students on student visas**
First-year students, excluding those programs listed below $4 492.10
First-year engineering, dentistry, education, home economics, medicine (M.D.), nursing $7 221.10

**Further Information**
*For additional information on admission, programs, the pre-admission academic counselling program, or on visiting Western, please contact*
Director, Liaison Services
Stevenson-Lawson Building, Room 151
The University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2026

Senior Associate Registrar, Admissions
Stevenson-Lawson Building, Room 165
The University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2150

*For information and application forms for student awards and loans, write to*
Director of Student Awards
Somerville House, Room 107
The University of Western Ontario
London, Ontario N6A 3K7
Telephone (519) 661-3032

## Wilfrid Laurier University

## Waterloo

**President: Dr. John A. Weir**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 4 327 | 340 |
| Part-time | 2 230 | 290 |

**Faculties, Schools, and Institutes**
Faculty of Arts and Science
Faculty of Graduate Studies
Faculty of Music
Faculty of Social Work
School of Business and Economics
Waterloo Lutheran Seminary

**General Admission Requirements**
Admission from Ontario secondary schools to the university will be based on the following criteria:
a) Grade 13 subjects sufficient to qualify the applicant for an OSSHGD, plus the specific program requirements as outlined after each program listing, *or* for those students completing the new OSSD: applicants will be required to have completed all diploma requirements, including satisfactory standing in six OACs. The admission average will be based on the OACs, and specific required subjects will be the same as specified for Grade 13 unless otherwise noted. Additional guidelines are offered in the admission section of the undergraduate calendar.
b) An academic standing based on the applicant's record of the last two years.
c) A recommendation from the secondary school principal will be reviewed.

*Bachelor of Arts*
A three-year general program (15 courses) and a four-year honours program (20 to 24 courses) are available. For all programs, Grade 13/OAC English is recommended. For the honours program, the applicant must have the minimum subject standing(s) specified by the department in which he or she wishes to pursue honours studies. A minimum Grade 13/OAC average of 60% is required for general programs, 65% for honours programs, and Grade 13 English/OAC is recommended.

*Bachelor of Science*
A three-year general program (15 courses) and a four-year honours program (20 courses) are available. Requirements for admission to the general science programs are two mathematics (Grade 13/OAC calculus and either OAC algebra and geometry, Grade 13 algebra, or Grade 13 functions and relations) and any two of Grade 13/OAC biology, chemistry, or physics. Students who do not satisfy all of the above requirements but who do have a good overall academic standing may be eligible for admission. Admission will be at the discretion of the Admissions Committee. Requirements for admission to the honours science programs are two mathematics (Grade 13/OAC calculus and either algebra and geometry or Grade 13 algebra or Grade 13 functions and relations) and two of biology, physics, or chemistry. Note: The applicant must possess the minimum subject standing(s) specified by the department in which he or she wishes to pursue honours studies. Double honours programs in chemistry and biology and in mathematics and biology require two mathematics, one of which must include calculus, chemistry, and one of biology or physics for both programs. Requirements for admission to the honours computing and computer electronics are two mathematics (Grade 13/OAC calculus and either algebra and geometry or Grade 13 functions and relations), and Grade 13/OAC physics. Chemistry is also recommended.

**Agricultural and Biological Sciences**

- **Bachelor of Arts**

*Three-year general*
Available in: biology.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

- **Bachelor of Science**

*Three-year general*
Available in: biology.

- **Bachelor of Science**

*Four-year honours*
Available in: biology, biology and chemistry (combined), biology and mathematics (combined), biology with possible concentration in ecology, taxonomy, general botany, general zoology, pre-medicine, or pre-dentistry.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

**Education/Physical Education/Recreation**

- **Bachelor of Arts**

*Three-year general*
Available in: physical education, physical education: coaching option (as a second major).

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**Fine and Applied Arts**

- **Bachelor of Arts**

*Three-year general*
Available in: fine arts, music.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

- **Bachelor of Music**

*Honours program*
Four years (20 courses and participation in at least one choir or ensemble each year). Students may follow the honours B.Mus. degree without specialization or they may choose to specialize in performance, baroque music, church music, theory, history, or composition. Courses are offered in theory, history, music education, and performance (instruction in all instruments and voice is offered).

*Admission requirements*
For the B.Mus. honours program a minimum Grade 13/OAC average of 60% is required. Additional qualifications are required:
a) for all prospective B.Mus. students: music 115

or its equivalent (Grade 2 conservatory theory) and Grade 6 level piano are required. Students who do not have Grade 6 piano or its equivalent on admission must meet the Faculty of Music requirement in piano proficiency (approximately equivalent to Grade 6) before being admitted to second year of the degree program.
b) for prospective piano and organ students: a minimum level of Grade 9 conservatory level piano or its equivalent is required.
c) for prospective students in voice or instruments other than organ or piano: there is no required grade, although Grade 8 conservatory level may be taken as a guide to the minimum level.

All prospective students must have an audition-interview with the faculty, to be arranged by appointment by April 30.

The applicant will be required to take a musical aptitude test and a written theory test and to perform two compositions in contrasting styles in his or her own performance medium. In addition, the applicant will be given sight-reading and ear tests and a written theory placement test. All documentary evidence of the applicant's musical background and examination results should be sent to the Office of the Registrar before this interview. Late applicants will be considered if space permits.

*Practicum program*
The practicum program, the first of its kind in Canada, provides an opportunity for students to obtain a higher standard of performance, as well as practical experience, by involving themselves in projects such as performance, teaching, church music, administration, and music publishing. Students undertaking the practicum study complete three terms a year. In this manner, students may take advantage of full-time jobs when they are normally available, in the fall.

**• Bachelor of Music Therapy**
*Honours program*
The Honours Bachelor of Music Therapy is a four-year degree program beyond Ontario Grade 13 or equivalent standing. It prepares students for professional work in music therapy. In order to apply for accreditation by the Canadian Association of Music Therapy, graduates of the program will have to have at least six months' satisfactory professional experience, normally in an internship, beyond the degree. The program consists of 23 two-term courses, of which at least seven must be in psychology and sociology, eleven in music, and three-and-one-half in music therapy. Selection for admission to the B.M.T. program is made by the Faculty of Music Admissions Committee on a competitive basis at the conclusion of year 2 of the honours music program. Students planning to complete a B.M.T. degree should apply for entry to the B.Mus. program and select courses in years 1 and 2 in accordance with guidelines offered by the Faculty of Music.

### Humanities and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: archaeology, classics (Greek and Latin), communications, English, film studies, fine arts, French, German, philosophy, religion and culture, Spanish.

**• Bachelor of Arts**

*Four-year honours*
Available in: archaeology, classical studies, English language and literature, French, German, Greek, humanities studies, Latin, philosophy, religion and culture, Spanish.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

### Mathematical and Physical Sciences

**• Bachelor of Arts**

*Three-year general*
Available in: chemistry, mathematics, physics.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Science**

*Three-year general*
Available in: chemistry, mathematics, physics and physical geography.

**• Bachelor of Science**

*Four-year honours*
Available in: computing and computer electronics, chemistry and biology (combined), mathematics, mathematics and biology (combined).

The aim of the computing and computer electronics program is to help students develop extensive programming abilities and acquire an in-depth understanding of computer hardware, microprocessors, microelectronics, and digital systems.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

### Social Sciences and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: anthropology, Canadian studies, communication studies, economics, geography, history, political science, psychology, sociology, and urban studies.

**• Bachelor of Arts**

*Four-year honours*
Available in: anthropology, economics (see below), geography, German area studies, history, political science, psychology, sociology.

**• Bachelor of Arts – Honours Economics**

*Four-year honours (22 courses)*
Students may combine honours economics with the finance and accounting option, co-operative option, administration option, mathematics option, or with another honours program.

*Co-operative option*
The undergraduate honours economics degree programs also offer a co-operative option. Co-op students begin their alternating sequence of work and study terms at the end of second year. Normally, a student would accumulate twelve months of practical work experience and graduate four months after students in the regular sequence. Students apply for the co-op option during their second year of studies.

*Admission requirements*
For the honours Bachelor of Arts in economics, students are required to have one Grade 13/OAC mathematics course, selected from Grade 13/OAC calculus or Grade 13 functions and relations (calculus is recommended). One Grade 13/OAC English course and an additional Grade 13/OAC mathematics course are recommended.

**• Bachelor of Business Administration**

*Four-year honours (24 courses)*
Students may combine studies with options in biology, chemistry, economics, mathematics, or physics.

*Co-operative option*
The undergraduate business administration degree program also offers a co-operative option. Co-op students begin their alternating sequence of work and study terms at the end of the second year. Normally, a student would accumulate 12 months of practical work experience and graduate four months after students in the regular sequence. Students apply for the co-op option during their second year of studies.

*Admission requirements*
Students are required to have one Grade 13/OAC mathematics course selected from Grade 13/OAC calculus or functions and relations (calculus is recommended). One Grade 13/OAC English course and an additional Grade 13/OAC mathematics course are recommended. The minimum Grade 13/OAC average is determined yearly by an Admissions Committee.

### Special Programs

**• Internship Options**
Internship options are available in honours anthropology, biology, computing and computer electronics, English, history, geography, political science, and sociology. Students in the internship program gain practical work experience at the end of their second and third academic years. Enrolment is limited, and application to the program must be made in first year.

**• Administration Option**
Students registering in honours arts or science programs may wish to select the administration option. This option provides fundamental training in administration for arts or science students; eight specified business-related options must be successfully completed within the 22-course honours degree program.

**• Continuing Education**
In the fall of 1978, Telecollege began offering university credit courses through television to students in the Waterloo area. Designed to bring the university directly to the homes of people unable to make regular trips to the campus, Telecollege will feature weekly introductory and senior courses in the humanities, social sciences, and business, monthly live phone-in programs, and frequent meetings between professors and students. Such students will write essays and exams and will be subject to all the other requirements of regular students. Eventually, it is expected that all courses required for a general degree will be made available through Telecollege.

**Residence 1987-88 (tentative)**
Double rooms $1 831
Single rooms $1 991
Meal plans
On-campus residents (minimum) $1 440
Off-campus residents (minimum) $956

**Tuition Fees 1987-88 (tentative)**
(excluding incidental fees)
Full-time $1 315

**Further Information**

*Inquiries about admission requirements should be directed to*

Mr. B. George Granger
Associate Registrar (Admissions)
Mrs. Christine Fazackerley
Admissions Officer
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2351

*Inquiries about secondary school liaison and general university information should be directed to*

Miss Valerie Clark
Senior Liaison Officer
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2385

*Information about student awards and loans may be obtained from*

Mrs. Pauline Delion
Director
Student Awards
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2256

# University of Windsor

## Windsor

**President: Dr. R.W. Ianni**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 7 385 | 539 |
| Part-time | 3 955 | 308 |

**Faculties, Schools, and Institutes**

Faculty of Arts
Faculty of Business Administration
Faculty of Education
Faculty of Engineering
Faculty of Graduate Studies
Faculty of Human Kinetics
Great Lakes Institute
Industrial Research Institute
Faculty of Law
Faculty of Science
Faculty of Social Science
School of Computer Science
School of Dramatic Art
School of Music
School of Nursing
School of Social Work
School of Visual Arts

**General Admission Requirements**

An OSSHGD is required. Under OSIS, completion of the OSSD and six OACs will be required. The six OACs may be part of the 30 credits required for the OSSD. The subjects required vary according to the university program the student wishes to enter.

Early admission will be granted to applicants for the fall of 1988 on the basis of:
a) the total secondary school performance
b) Grade 13 or the six OACs term and interim marks
c) principal's recommendation

Note: for all programs, because of limitations in enrolment, preference will be given to students with the best academic qualifications.

*Bachelor of Arts*

An OSSHGD or OSSD and six OACs with a minimum overall average of 60% as indicated above are required. For programs involving languages, the Grade 13/OAC level of the appropriate language is normally required. For general or honours mathematics, functions and relations and calculus are required and algebra is recommended. For honours philosophy and mathematics or honours economics and mathematics, functions and relations is required and calculus and algebra are strongly recommended. For honours psychology, calculus is strongly recommended. For Asian studies and English, Grade 13/OAC English is strongly recommended. Honours home economics recommends Grade 13/OAC chemistry, biology, and English.

*Bachelor of Science*

An OSSHGD or OSSD and six OACs with a minimum overall average of 60% are required. A minimum average of 60% in all science and mathematics subjects is required.

*For majors in chemistry:* calculus, functions and relations, two or more of algebra, biology, chemistry, physics, and geology are required. An average of at least 60% in all science and mathematics courses is required. In addition to taking relations and functions and calculus, students are advised to take university entrance-level courses in biology, chemistry, physics, and algebra.

*For majors in geology:* one mathematics and at least two of algebra, biology, calculus, chemistry, functions and relations, geology, and physics are required. An average of at least 60% in all science and mathematics courses is required. Students are advised to take university entrance-level relations and functions, calculus, algebra, and two of: biology, chemistry, geology, and physics.

*For majors in mathematics:* calculus and functions and relations are required. An average of at least 60% is required in all mathematical subjects. In addition to taking relations and functions and calculus, students should take a university entrance-level course in algebra. If they are planning to pursue applied mathematics, they are advised to take a university entrance-level course in physics.

*For majors in physics:* functions and relations, physics, and two of algebra, calculus, or chemistry are required. An average of at least 60% is required in all science and mathematics courses. In addition to taking physics and relations and functions, students are advised to take university entrance-level courses in calculus, algebra, and chemistry.

*For majors in biology* (including pre-medicine, pre-optometry): calculus, functions and relations, and at least two of algebra, biology, chemistry, geology, or physics. An average of at least 60% is required in all science and mathematics courses. physics is recommended. In addition to taking relations and functions and calculus, students are advised to take university entrance-level courses in chemistry and physics.

**Preliminary Year (Grade 12 only)**

Students who have completed 27 academic credits oriented toward university studies in not more than four years of secondary school may wish to apply for the preliminary year at the University of Windsor. A minimum average of 66% is required.

Applicants for the science, nursing, and engineering preliminary year programs must have completed chemistry, mathematics (Grades 11 and 12), and physics. Applicants for the commerce program and those who intend to major in mathematics must have completed mathematics (Grades 11 and 12). A student who intends to major in a specific language should have that language to the Grade 12 level.

Under OSIS, the general requirement for admission to the preliminary year will be completion of the OSSD in not more than four years in advanced level subjects with an average of at least 66%. This is to accommodate students who have attained the OSSD and wish to attend university but have not completed the required number of OACs within the four-year time period.

**Agricultural and Biological Sciences**

- **Bachelor of Science**

*Three-year general/four-year honours*
Available in: biology, biotechnology.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

## Education/Physical Education/Recreation

**• Bachelor of Arts**

*Four-year honours*
Available in: drama in education.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Education**
Consecutive program, one year in length, to prepare the student for certification to teach in Ontario schools from kindergarten to Grade 13.

*Admission requirement*
An approved degree from an accredited university.

**• Bachelor of Human Kinetics**
Four years with specialization in applied kinesiology, sports administration, or teaching and coaching. This is a co-operative program. Admission to the co-op stream after the first year of the regular honours program will be based on the final results of courses taken at the Grade 13 level, semester 1 results, and an interview with the co-op co-ordinator. Students will be responsible for completing the regular degree requirements and the three work experience papers.

*Admission requirements*
An OSSHGD or OSSD and six OACs with a minimum overall average of 60%; Grade 13/OAC English, biology, and chemistry are recommended. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

## Engineering

**• Bachelor of Applied Science**
Four years, including one common year followed by three years of specialization in one of: chemical, civil, electrical, engineering materials, geological, industrial, or mechanical.

*Admission requirements*
An OSSHGD or OSSD and six OACs with a minimum average of 60%, including functions and relations, calculus, and chemistry. In addition, applicants are advised to take university-entrance level courses in algebra, physics, and English. Because of limitations on enrolment, preference will be given to students with the best academic qualifications. The level 5 program should include algebra, calculus, chemistry, English, functions and relations, and physics.

## Fine and Applied Arts

**• Bachelor of Arts**

*Three-year general*
Available in: art history, drama, studio art.

**• Bachelor of Arts**

*Four-year honours*
Available in: art history, drama, combined majors with music.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Fine Arts**
Four years, with specialization in either acting, music theatre, scenic design, or visual arts.

*Admission requirements*
An OSSHGD or OSSD and six OACs with a minimum overall average of 60%. For specialization in acting, a successful audition conducted by the School of Dramatic Art is required; for specialization in music theatre, successful auditions conducted by both the School of Dramatic Art and the School of Music are required; auditions are normally held on specific dates during the spring.

**• Bachelor of Music**
Four years, with specialization in either history and literature, school music, performance, or an individualized program.

*Admission requirements*
An OSSHGD or OSSD and six OACs with a minimum overall average of 60% and an audition by the School of Music, consisting of performance and a written test on music theory.

**• Bachelor of Musical Arts**
Three years, with wide options in music course selection under the supervision of academic counsellors. Emphasis is on freedom of choice and on designing a program to suit the individual student's interest and background.

*Admission requirements*
An OSSHGD or OSSD and six OACs with a minimum overall average of 60%. Applicants for this program must have some musical skills and will be required to demonstrate these skills through a diagnostic examination and performance audition.

## Health Professions and Medical Sciences

**• Bachelor of Science**

*Three-year general*
Available in: pre-dentistry, pre-medicine, pre-optometry.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

**• Bachelor of Science in Nursing**
Four years from Grade 13; three years for candidates with professional nursing qualifications. A one-year diploma program in public health nursing is offered for professional nurses.

*Admission requirements*
An OSSHGD or OSSD and six OACs, including one mathematics subject and at least two of: biology, chemistry, relations and functions, calculus, algebra, and physics. An average of at least 60% in all mathematics and science courses also is required. Students are advised to include university entrance-level courses in English and chemistry in their programs. An interview with the School of Nursing may be required. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

## Humanities and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: Asian studies, classical civilization, comparative literature, English, French, German, Greek, Italian, Latin, philosophy, religious studies, Russian, Spanish.

**• Bachelor of Arts**

*Four-year honours*
Available in: Asian studies, Canadian studies, classical civilization, comparative literature, English, English literature and creative writing, French, German, Italian language and literature, Latin American studies, philosophy, religious studies, Spanish. Greek, Italian, Latin, and Russian may be studied with one of the above, or with another discipline to complete a combined honours degree.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

## Mathematical and Physical Sciences

**• Bachelor of Arts**

*Three-year general/four-year honours*
Available in: mathematics.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Computer Science**
*Three-year general/four-year honours*

*Admission requirements*
An OSSHGD or OSSD and six OACs with a minimum overall average of 60% and a minimum of 60% in calculus and functions and relations; algebra is recommended. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

**• Bachelor of Science**

*Three-year general/four-year honours*
Available in: biochemistry, chemistry, general science, geology, mathematics, mathematics and statistics, physics.

## Social Sciences and Related Courses

**• Bachelor of Arts**

*Three-year general*
Available in: anthropology, communication studies, economics, geography, history, home economics, political science, psychology, sociology, urban studies.

**• Bachelor of Arts**

*Four-year honours*
Available in: anthropology, Canadian studies, communication studies, criminology, economics, geography, geography in resource management, geography in urban studies, history, home economics, international relations, Latin-American studies, political science, political science in urban studies, psychology, sociology.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts".

**• Bachelor of Commerce**
Four years, with emphasis on business and economic affairs and specialization in accounting, administrative studies, finance, management science, and marketing.

*Admission requirements*
An OSSHGD or OSSD and six OACs with a minimum overall average of 60%; algebra or calculus is required. Because of limitations on enrol-

ment, preference will be given to students with the best academic qualifications.

**• Bachelor of Commerce – Economics**
Four years, combining both the core of the Bachelor of Commerce program and the core of the Bachelor of Arts Economics program while allowing the student to use the options to gain additional training in economics.

*Admission requirements*
An OSSHGD or OSSD and six OACs with a minimum overall average of 60%; algebra and calculus are required. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

**• Bachelor of Laws**
Three years, following at least two years of university (a minimum of five years from Grade 13). Applications should be made to the Faculty of Law, University of Windsor.

**• Bachelor of Public Administration**
Four years from Grade 13, with required courses in business administration, economics, law, and political science.

*Admission requirements*
An OSSHGD or an OSSD and six OACs, with a minimum overall average of 60%.

**• Bachelor of Social Work**
Four years from Grade 13.

*Admission requirements*
An OSSHGD or an OSSD and six OACs, with a minimum overall average of 60%. Admission to the School of Social Work officially takes place in year 3. At this time, personal qualities and academic qualifications are considered.

**Special Programs**

**• Bachelor of Commerce for University Graduates**
A program consisting of 20 courses to supplement a non-business university degree. The program leads to the designation Bachelor of Commerce.

*Admission requirements*
Applicants must have a bachelor's degree from an accredited university, with a minimum overall average, including any failure, of 60%. Because of limitations on enrolment, preference will be given to students with the best academic qualifications.

**• Certificate Programs**
The University of Windsor offers certificate programs in the following: business administration, criminology and criminal justice, gerontology, informational publishing, Japanese studies, labour studies, organizational and career development, organizational communications, public administration, religious studies, women's studies.

These 12-credit certificate programs are generally offered on a part-time basis. For further information, contact the Registrar's Office.

**• Introductory Psychology Telecourse**
The University of Windsor is now offering a number of "Telecourses". Each course involves 30½ hours of television programs, a text, and a study guide.

The television component highlights information, paces the students, and provides a visual explanation of course material. Channel 56 in Windsor and cable television in Chatham, Leamington, and Sarnia broadcast the class twice weekly for a period of 15 weeks.

The course begins with an orientation meeting between the students and the professor. Another three meetings are scheduled throughout the 15 weeks for discussion and testing. Tests are always marked and reviewed immediately, so that students are aware of their progress. These meetings are held in each of the four locations mentioned above.

Tapes of the television programs are available in the Leddy Library on the University of Windsor main campus and in several public libraries.

For further information contact
Mrs. Margaret Landstrom
Office of Part-time Studies
University of Windsor
Windsor, Ontario
N9B 3P4
Telephone (519) 253-4232 ext. 3305

**Residence**
The University of Windsor and its affiliates own and/or operate eight residences for men and women, plus a central food complex to service these residences. Residence fees vary with the plan selected.

**Tuition Fees 1986-87**
(including incidental fees)
Full-time students per semester *(Note: Fees for first-year non-Canadian students are in brackets and are listed immediately after regular student fees):*
Preliminary year $702.75 ($1 393.25)
Arts, music, science (first year only) $702.75 ($2 459.25)
Business administration $706 ($2 462.50)
Education $701.25 ($3 958.75)
Engineering $767.75 ($3 970.25)
Computer science, dramatic arts, human kinetics, social work, visual arts $707.75 ($2 462.50)
Law $730.25 ($2 486.75)
Nursing $712.75 ($3 970.25)
Social sciences $705.25 ($2 461.75)
First-year graduate studies $679.75 ($2 436.25)

**Further Information**
*Inquiries about admission requirements should be directed to*
Mrs. Linda Urquhart
Assistant Registrar (Admissions)
University of Windsor
Windsor, Ontario N9B 3P4

*Inquiries about student awards and loans should be directed to*
Mrs. Marie Renaud
Office of Student Awards
University of Windsor
Windsor, Ontario N9B 3P4

*For information on other aspects of the university and on university information programs for secondary schools contact*
Mr. Joe Saso
Director of Secondary School Liaison
University of Windsor
Windsor, Ontario N9B 3P4
Telephone (519) 973-7014 (out-of-town callers may call collect)

# York University

## Toronto

**President: Professor Harry W. Arthurs**

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 18 261 | 1 600 |
| Part-time | 12 178 | 1 447 |

**Faculties, Schools, and Institutes**
Atkinson College
Centre for Continuing Education
Centre for Research in Experimental Space Science
Centre for Research on Environmental Quality
Centre for Research on Latin America and the Caribbean
Faculty of Administrative Studies
Faculty of Arts
Faculty of Education
Faculty of Environmental Studies
Faculty of Fine Arts
Faculty of Graduate Studies
Faculty of Science
Glendon College
Institute for Behavioural Research
Joint Centre on Modern East Asia
LaMarsh Research Program on Violence and Conflict
Osgoode Hall Law School of York University
Research Centre for Strategic Studies
Robarts Centre for Canadian Studies
York University Transportation Centre

**General Admission Requirements**
Applicants for admission to the university must have completed a full Grade 13 program certified by the school as appropriate in terms of content and achievement for a university degree program, with standing in all Grade 13 subjects. As a preliminary statement with reference to OSIS, upon the introduction of the new OSSD, students will be required to present the OSSD including six OACs. All OACs acceptable to the Ministry of Education will be accepted by York University. See the individual faculty descriptions for specific admissions criteria.

Additional qualifications may be required, and applicants should consult the Admissions Office for further information. Students are encouraged to provide the university with any additional information they feel the university ought to consider. For example, York would be interested in hearing about any activities that reflect strong dedication and commitment or demonstrate unusual accomplishment, as well as about extenuating circumstances (such as illness or financial difficulties) that may have affected your achievement in school.

The OSSHGD will be accepted for university entrance until June 1990. Applicants who do not hold the Grade 13 or equivalent requirement in full may request special consideration if they are at least 21 years of age by the first day of classes of the academic session to which admission is being sought. While anyone meeting the age requirement may apply, candidates are expected to satisfy the university that they have a reasonable chance of success in university work, and to have had no recent unfavourable academic record within the past two years.

**Candidates are advised that holding the published admission requirements means only that they are eligible for selection. In the selection process, the university makes offers of admission to the highest academically qualified candidates. In assessing a candidate for admission, the university considers the overall academic record, the report of the high school, and the results of any additional tests (e.g. Scholastic Aptitude or English Proficiency) as may be required. Applicants to programs with limited enrolment must have academic qualifications considerably higher than the minimum standards.**

Applicants whose mother tongue is not English and who have studied for four years or less in a Canadian secondary school will be required to write the York University Evaluation of English Proficiency. Information will be forwarded upon receipt of an application.

*Bachelor of Arts*
To be eligible for admission, Faculty of Arts applicants must achieve a minimum overall average of 67% in any six Grade 13 credits. Students presenting the OSSD should include an OAC in English and one OAC in the humanities, social sciences, or mathematics. See *General Admission Requirements,* above.

The Faculty of Arts at the York campus offers programs of study leading to the Bachelor of Arts degree at the ordinary and honours levels, on a full- or part-time basis. Degrees may be taken in the traditional disciplines, in interdisciplinary (thematic) studies, and in individualized studies.

The student is introduced to the Faculty of Arts through a balance between disciplinary and interdisciplinary courses. Within the first seven courses (a normal full-time program consists of five courses per year), the student examines two interdisciplinary areas: humanities or social science and natural science. (Students will also be required to take a further interdisciplinary course at the upper level). As well, the student may take a college course (maximum 20 students per class), allowing for experience with the small seminar setting. Students may take up to three disciplinary courses in their first year and have the option of declaring a major subject either in the first or second year of study. Electives may be selected from courses offered by other faculties at York.

The Faculty of Arts offers ordinary (15 courses – normally three years) and honours (20 courses – normally four years) programs of study. Options for these programs are listed under specific subject areas.

In addition, interdisciplinary studies programs are offered in honours. These programs are also listed under specific subject areas.

In an ordinary program, students take five courses in their major and select their remaining courses in accordance with the requirements of the Faculty of Arts and their own interests.

In an honours program, students pursue their studies within one of the following five formats:
a) specialized honours – students specialize in one subject by taking at least nine courses in their major program;
b) honours (double major) – students elect to major in two subjects, taking seven courses in the first major and seven in the second;
c) honours – students take at least seven courses in one major subject;
d) honours (major/minor), students take at least seven courses in the major subject and five courses in the honours minor;
e) specialized honours: individualized studies – students take a course of study designed around a theme or problem that interests them. These programs are planned by the student in consultation with a faculty advisor.

*Bachelor of Science*
Applicants for admission to the honours and ordinary B.Sc. programs in the Faculty of Science must present six Grade 13/OAC credits, with an overall average of at least 66%. Those intending to pursue honours and ordinary science programs are advised to select chemistry, physics, and two credits of mathematics at the Grade 13/OAC level. Finite mathematics, while acceptable as one of the six OACs, cannot replace one of the recommended courses.

Both specialized honours programs (120 credits minimum) and ordinary programs (90 credits minimum) are offered. Options for these programs are listed under specific subject areas.

Combined honours programs (120 credits minimum), in which the student may choose to major in a combination of two subjects, are available.

An honours science program (120 credits minimum), without specialization, is also offered.

### Agricultural and Biological Sciences

**• Bachelor of Science**

*Ordinary or honours*
Available in: biology.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

### Education/Physical Education/Recreation

**• Bachelor of Arts or Bachelor of Science**

*Honours*
Available in: physical education.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Arts" or "Bachelor of Science".

**• Bachelor of Education**
York's Faculty of Education offers a concurrent program in which students pursue their academic and professional studies simultaneously. Students co-register in the Faculty of Education and in the Faculty of Arts, Science, or Fine Arts, or in Glendon College. In other words, students work toward a B.A., B.Sc., or B.F.A. degree while at the same time working toward a B.Ed. degree. With co-registration, an extra year is added to the normal length of the academic degree. Consequently, an ordinary degree (B.A./B.Ed., B.Sc., B.Ed., B.F.A./B.Ed.) takes four years; an honours degree takes five years. Further teacher training is not necessary upon graduation.

During the first year of academic study at York (or equivalent), students may apply to co-register in one of the following programs in the Faculty of Education: primary-junior, junior-intermediate, intermediate-senior.

Successful completion of any one of the combined B.A./B.Ed., B.Sc./B.Ed., or B.F.A./B.Ed. programs leads to recommendation for certification in Ontario as an elementary or secondary school teacher.

### Engineering and Applied Sciences

**• Bachelor of Science**

*Ordinary or honours*
Available in: applied computational and mathematical science.

*Honours*
Available in: earth and atmospheric science.

*Admission requirements*
See *General Admission Requirements,* "Bachelor of Science".

### Fine and Applied Arts

**• Bachelor of Fine Arts and Bachelor of Arts in the Faculty of Fine Arts**
The Faculty of Fine Arts offers a four-year honours program with specialized honours and general honours programs. Specialization occurs in the following areas:
*Department of Dance* – performance, choreography, notation, criticism, teaching, dance therapy, history;
*Department of Film/Video* – film production, video production, film studies;
*Program in of Fine Arts Studies* – general honours or creative writing;
*Department of Music* – jazz, performance, composition, electronic music, ethnomusicology, history, theory, classical and contemporary music, instrumentation, and arranging;
*Department of Theatre* – performance, production and design, drama studies, directing;
*Department of Visual Arts* – studio art (painting, sculpture, printmaking, design, drawing, graphics, interdisciplinary studio, photography), art history.

*Evaluation procedure*
In addition to the regular requirements for admission to the university, the Faculty of Fine Arts requires an evaluation of an applicant's suitability for any of its departments. The requirements for each department are detailed in the York University undergraduate calendar. It is the applicant's responsibility to make an appointment for evaluation. Applicants from Ontario who reside some distance from Toronto should note that the Faculty of Fine Arts holds auditions in selected cities across Canada and accepts evaluations by mail. Applicants will be advised of the locations and dates of these evaluations.

*Requirements for admission to the Faculty of Fine Arts*
Students may select any six Grade 13/OAC subjects deemed acceptable by their school for the purpose of entrance to the university, with a minimum overall average of 60%; English is recommended. Applicants will also be required to offer appropriate evidence of aptitude or achievement by satisfying the evaluation procedure for the department to which application is intended.

Applicants of any age who do not hold the full Grade 13 or equivalent requirements may request special consideration if they can show evidence of high achievement in one or more of the several arts, and if they can satisfy the Senate Committee on Admissions and the Faculty of Fine Arts that they have a reasonable chance of success in both the academic and the professional portions of the university program of their choice.

### Humanities and Related Courses

**• Bachelor of Arts**

*Ordinary or honours*
Available in: classical studies, English, French, German, Greek, Italian, Latin, linguistics, philosophy, Russian, Spanish.

*Honours*
Available in: creative writing.

**• Bachelor of Arts**

*Honours interdisciplinary programs*
Available in: mass communications, religious studies.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**Mathematical and Physical Sciences**

**• Bachelor of Arts**

*Ordinary or honours*
Available in: computer science, mathematics, mathematics for commerce.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Science**

*Ordinary or honours*
Available in: chemistry, computer science, geography, mathematics, physics.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**Social Sciences and Related Courses**

**• Bachelor of Arts**

*Ordinary or honours*
Available in: anthropology, classical studies, economics, geography, history, political science, psychology, sociology.

*Honours*
Available in: economics and business, public policy and administration.

**• Bachelor of Arts**

*Honours interdisciplinary programs*
Available in: African studies, Canadian studies, East Asian studies, Latin American and Caribbean studies, law and society, social and political thought, urban studies, and women's studies.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts".

**• Bachelor of Business Administration in the Faculty of Administrative Studies**
A four-year honours undergraduate program. Students enter the program after two years of undergraduate study and complete their third and fourth years of study in the Faculty of Administrative Studies. Transfer to the Faculty of Administrative Studies may be from the Faculty of Arts, Faculty of Science, Glendon College, or another university.

*Admission requirements*
To enter the program, students must complete two years of university study beyond Grade 13 or the equivalent. Within these two years of study, students must complete one full year university course in calculus, computer science, economics, and statistics.

**• Bachelor of Law at Osgoode Hall Law School**

*Admission requirements*
Candidates for this program must have successfully completed either three years of an approved university degree course following Grade 12 or two years of an approved university degree course following Grade 13, or have been awarded a degree in an approved program from a recognized university, and have satisfied all other requirements that may be prescribed.

**• Bachelor of Science**

*Ordinary or honours*
Available in: psychology.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Science".

**Special Programs**

**• Early Childhood Education – Joint Program York/Seneca**

*Four years*
Bachelor of Arts (York) and Diploma in Early Childhood Education (Seneca).

*Admission requirements*
Applicants must have 10 full university courses, including introduction to psychology, developmental psychology, and at least more one half-course in psychology. Also, they must complete an admissions questionnaire and attend an interview.

**• Rehabilitation Services – Joint Program York/Seneca**

*Four years*
Bachelor of Arts (York) and Diploma in Rehabilitation Services (Seneca).

*Admission requirements*
Applicants must have 10 full university courses, including introduction to psychology. Students should also have experience working with persons with disabilities.

**• Part-Time Daytime Studies**
Each of the faculties, other than the Faculty of Administrative Studies and the Faculty of Law, offers the opportunity for students to pursue studies on a part-time daytime basis.

Applicants should request, from the Admissions Office, information regarding the regulations pertaining to part-time studies in each faculty.

**• Winter-Summer Session**
The Faculty of Arts and the Faculty of Science offer, as an alternative, a winter-summer session for first-year students. Entering students may commence their studies in January/February and complete their first academic session the end of June.

*Admission requirements*
See *General Admission Requirements*, "Bachelor of Arts, Bachelor of Science".

**• Atkinson College**
Atkinson College, the part-time evening Faculty of Arts and Science at York University, offers courses leading to four undergraduate degrees: Bachelor of Arts degree (both ordinary and honours), the Bachelor of Science degree (ordinary), the Bachelor of Administrative Studies (ordinary and honours), and the Bachelor of Social Work degree (honours). In addition to the customary arts program, there are programs in Canadian studies, fine arts/creative arts studies (music, theatre, film, visual arts), humanities, liberal studies (classical studies, communication studies, conservation and environmental studies, East Asian studies, individualized liberal studies, science, technology and society, social and political thought, and women's studies), social science, and urban studies. People who do not have an OSSHGD but who are over 21 years of age may apply for admission to Atkinson College. The college operates on a course-credit, rather than yearly, system. In summer, courses are offered during the day as well as in the evening. Courses are the equivalent of regular daytime courses, although not necessarily identical to them, and are given mainly by the full-time Atkinson faculty. Classes are held on both the York and Glendon campuses of the university. For further information about Atkinson College contact:
Atkinson College
York University
4700 Keele St.
North York, Ontario
M3J 2R7
Telephone (416) 736-5222

**Residence 1986-87**
*Approximate fees (including meals)*
Double rooms $2 681
Single rooms $2 964
Only a limited number of single rooms are available to first-year students.
Fees are subject to change without notice.

**Tuition fees 1986-87**
(excluding incidental fees)
Full-time Canadian and landed immigrant students $1 479
Part-time studies $295.80 per full-year course (Canadian and landed immigrant students)
Fees for full-time new visa foreign students are $4 876.50
Tuition fees are subject to change without notice.

**Further Information**
*Inquiries about admission requirements should be addressed to*
Mr. J.A.S. McNeil
Director of Admissions
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5100

*For information about financial aid, please contact*
Ms. Elizabeth Rudyk
Director of Financial Aid
York University
4700 Keele St.
North York, Ontario M3J 2R4
Telephone (416) 736-5006

*Admissions/Liaison*
Dyanne B. Gibson
Assistant Director of Admissions
Debra Glass, Schools Liaison/Publications Coordinator
Susan Scott, Liaison Officer, New Initiatives
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5100

## Glendon College Toronto

**Principal: Philippe Garigue**

Glendon College offers a bilingual (English-French) program emphasizing the liberal arts.

Students at Glendon may study toward a Bachelor of Arts degree: The B.A. honours (20 courses) or the B.A. ordinary (15 courses). In addition to choosing the Bachelor of Arts degree available at Glendon, students interested in teaching may co-register (complete two degrees simultaneously) in the Faculty of Education, taking courses toward both the Bachelor of Arts (B.A.) and the Bachelor of Education (B.Ed.) degrees on the Glendon campus.

Glendon also offers students the preparatory courses required by York University's business school (Faculty of Administrative Studies) and the law faculty (Osgoode Hall Law School).

The college's commitment to bilingualism enables students to take courses in both English and French in all subject areas. Successful completion of a course in the student's second language at the second-year level is required for graduation from any Glendon program. Language training courses are available at all levels; students may come to Glendon with some previous language training, or fully bilingual, and find courses designed to develop their language skills. In addition, students are encouraged to take part in the bilingual social and cultural life of the college.

**Programs offered**

- **Bachelor of Arts (B.A.) – three or four years**

The college offers students a full range of programs in the humanities and social sciences. Interdisciplinary programs such as Canadian, international, or multidisciplinary studies allow students to design their own pattern of courses, using a variety of disciplines or approaches.

Glendon also offers a degree program in translation. Students interested in pursuing a B.A. honours degree in translation at Glendon must first complete a first year (five full courses or the equivalent) of general university studies. Only a limited number of students are accepted to this program, and an entrance examination takes place each April.

Glendon students may choose to do some courses outside the Glendon faculty, in various other faculties on the York campus. Students with high competence in French may apply to take the third year of a four-year program in a French-language university in Quebec or France.

*Admission requirements*

Applicants may select any six Grade 13/OAC subjects deemed acceptable by their school for the purpose of entrance to the university.

English-speaking applicants should have at least 60% in Grade 12 or 13 French (or equivalent), but some places are available in French-language courses for which little or no previous preparation in French is required. Students who have no background in French or English will be required to take additional French- or English-language courses to fulfil Glendon's degree requirements.

**Residences**

Glendon College has two residences that accommodate about 400 students. Each residence is divided into houses; some houses are for men or women exclusively, while others are co-ed. Glendon can accommodate a percentage of first-year students in single rooms. Students wishing single-room accommodation must submit their application form and deposit by the end of June or early July.

*Approximate residence fees 1986-87*
(including meals)
Single room $2 964
Double room $2 681
Fees are subject to change without notice.

**Visits and further information**

The Glendon Liaison Office will arrange individual, class, or group tours of the college in English or in French, upon request. An appointment with an academic counsellor can be made to discuss course, program, or career choices.

For application forms or additional information please write or phone:

Ann Montgomery, Co-ordinator Liaison Advising
Glendon College
2275 Bayview Ave.
Toronto, Ontario
M4N 3M6
Telephone (416) 487-6710

# Teacher Education

General information concerning courses offered and admission requirements appears below. For further information and application forms for admission, applicants should write to the faculty, school, or college of education of their choice.

- **How to Qualify as a Teacher for Ontario Schools**

Students wishing to prepare themselves for a teaching career may apply for admission to a faculty, school, or college of education if they have the necessary qualifications.

The faculties, schools, or colleges of education at Brock University, Lakehead University, Nipissing University College (Laurentian University), , the University of Ottawa, Queen's University, the University of Toronto, the University of Western Ontario, the University of Windsor, and York University offer courses for students who wish to qualify as school teachers in English-language schools.

In addition, the Faculty of Education at the University of Ottawa and the School of Education at Laurentian University provide teacher education programs for those who wish to teach in schools or classes having French as the language of instruction.

**Courses and Admission Requirements**

For admission in September 1988 to courses leading to certification as a school teacher, the requirements stated below for faculties, schools, or colleges of education will be in effect.

**Courses for Teaching in English-language Schools**

*Basic one-year course*

Applicants for September 1988 admission to one-year programs leading to teacher certification for English-language and French-language schools in Ontario will be required to submit evidence of successful completion of an approved university degree in arts or science, or a degree deemed equivalent.

**Admission to University Faculties, Colleges, or Schools of Education**

To be eligible for an Ontario Teacher's Certificate, an applicant wishing to pursue a course in teacher education offered by the faculty or college of education of a university must meet the admission requirements of that institution and must successfully complete an approved academic degree program in arts or science, in addi tion to completing a year of professional training (For details of admission requirements for degree programs, see the previous sections on specific universities.)

For admission requirements for teacher certifi cation valid in French-language schools or class es, an applicant should write to the admissions officer at the School of Education, Laurentian University or at the Faculty of Education, Univer sity of Ottawa.

An applicant who wishes to enrol at a university offering a program in professional educatior for prospective teachers should write to the admissions officer or to the dean of the faculty or college of education of the particular university for information regarding admission requirements and courses.

**Teachers of Technological Subjects**
To become qualified to teach technological subjects, a candidate must show evidence of at least Grade 12 or equivalent standing and approved, practical, wage-earning experience in a skilled trade directly related to the specialized subject field.

Detailed information regarding minimum admission qualifications, available courses, professional experience required, and course content is available from the following sources

Chairman
Technical and Industrial Arts Department
Faculty of Education
University of Toronto
371 Bloor St. W.
Toronto, Ontario M5S 2R7

Associate Registrar
Faculty of Education
The University of Western Ontario
1137 Western Rd.
London, Ontario N6G 1G7

Co-ordinator of Technical Education
Faculty of Education
Queen's University
Kingston, Ontario K7L 3N6

For information on the summer program contact
Director of Teacher Education
Faculty of Education
University of Ottawa
René-Lamoureux Hall
651 Cumberland St.
Ottawa, Ontario K1N 6N5

**Teachers of Special Subjects**
In addition to the basic academic and vocational certificates valid in secondary schools, additional qualifications are required for teaching certain special subjects that demand specialized knowledge, training, or experience.

Information regarding qualifications for the teaching of special subjects such as art, guidance, home economics, industrial arts, library, music, physical and health education, and special education is available from
Teacher Education Section
University Relations Branch
Ministry of Colleges and Universities
Mowat Block, Queen's Park
Toronto, Ontario M7A 1L2

**Fees**
Tuition and other fees vary, depending on the institution. Consult the appropriate section in this publication or contact the institution concerned.

**Financial Aid**
Assistance based on financial need and students' actual costs is available under the Ontario Student Assistance Program. See the introductory section, *Financial Assistance for Students*, for details. Further information on financial aid is available from the Financial Aid Administrator of the university to which the student is applying.

**Living Accommodation**
Student teachers attending a university away from home can obtain from the housing bureau of the university a list of convenient boarding houses. For residence accommodation at university, students who are interested in living on campus should apply early. (See introductory section, *Students' Costs*, for details.)

**Application for Admission**
*Concurrent Programs*
For admission to a concurrent program (an education program taken along with the first degree), apply through the Ontario Universities' Application Centre.

*Consecutive Programs*
The Ontario universities offering teacher education in a consecutive program (a program taken after completion of the first degree) have a common application form that offers a candidate three choices of university on the same form; however, a candidate may submit only one application form. These forms may be obtained from any of the universities listed below. Application forms are also available from the Admissions Office at all of the other Ontario universities.

Office of the Registrar
Brock University
St. Catharines, Ontario L2S 3A1

Assistant Registrar, Admissions
Lakehead University
Thunder Bay, Ontario P7B 5E1

Admissions Officer
Laurentian University
Sudbury, Ontario P3E 2C6

Office of the Registrar
Nipissing University College
College Education Centre
Box 5002
North Bay, Ontario P1B 8L7

Office of the Registrar
Admissions Section
University of Ottawa
550 Cumberland St.
Ottawa, Ontario K1N 6N5

Service du registraire
Section de l'admission
Université d'Ottawa
550, rue Cumberland
Ottawa (Ontario) K1N 6N5

The Registrar
Faculty of Education
Queen's University
Kingston, Ontario K7L 3N6

The Registrar
Faculty of Education
University of Toronto
371 Bloor St. W.
Toronto, Ontario M5S 2R7

Student Services – Admissions
Faculty of Education
University of Western Ontario
1137 Western Rd.
London, Ontario N6G 1G7

Office of the Registrar
Faculty of Education
University of Windsor
600 Third Concession Rd.
Windsor, Ontario N9B 3P4

The Office of Student Programs
Faculty of Education
York University
4700 Keele St.
North York, Ontario M3J 1P3

# Centralia College of Agricultural Technology

## Huron Park

**Principal: W.R. Allen**

Centralia College, located 50 kilometres north of London, offers two-year postsecondary courses in agricultural business management, animal health technology, and food service management, as well as continuing education courses for farmers, agribusiness, food service, and animal health personnel.

**Enrolment 1986-87**
Diploma 250
Continuing Education 1 600

**Admission Requirements**
Diploma course applicants require an OSSGD or equivalent, including successful completion of Grade 12 English and mathematics at the general or advanced level. Additional requirements are noted in the following course descriptions. Candidates for certificate courses must be 17 years of age or older, have completed Grade 8 or the equivalent, and have been out of school for at least one full year. A personal interview is also required. Mature and foreign applicants will be assessed on an individual basis.

**• Diploma Courses Offered**
*(September to April term)*

**• Agricultural Business Management**
This course offers training to people intending to operate and manage their own or an employer's farm. Excellent job opportunities also exist in the agricultural supplies and services industry and in government. Course emphasis is placed on management of the agricultural businesses, especially farms. A full-year farm analysis project gives students extensive experience in analysing selected commercial farms in the area. Students may focus their study on areas of particular interest through the selection of elective subjects in second year. Preference is given to applicants who have commercial agricultural experience.

**• Animal Health Technology**
This course is designed to train animal health technicians to assist veterinarians in private practice. The study of farm animals is an important part of the curriculum. Practical experience for students is provided, both at the college and in the field, in co-operation with practising veterinarians in the surrounding area. The course is accredited by the Canadian Veterinary Medical Association. Applicants must have the OSSGD. Preference will be given to applicants who have Grade 12 credits in chemistry, another science (biology preferred), mathematics, English, and two other subjects (all at the advanced level). A letter of reference, verifying a minimum of 40 hours of suitable work experience with a practising veterinarian, is required. Enrolment is limited, and preference is given to residents of Ontario. Applications are due February 1. Candidates who meet the admission requirements will be invited to the college for an interview.

**• Food Service Management**
This course is approved by the Ontario Dietetic Association, and graduates are eligible for immediate membership in the Canadian and Ontario Food Service Supervisors' Associations.

A combination of academic subjects and practical experience pertaining to food service management prepares students for challenging careers as supervisors or managers in the food industry. Students are required to gain a minimum of eight weeks of food service experience between the first and second years. Towards the end of the second year, students are required to complete six weeks of training at the supervisory level in a health-care institution or hospitality establishment, under the guidance of trained personnel.

Employment opportunities are currently expanding in health-care, institutional, and hospitality food service as employers recognize the need to hire graduates knowledgeable about the organization and function of the food industry.

In addition to having credit in Grade 12 English and mathematics, applicants should possess either Grade 12 chemistry or Grade 11 biology.

**Residence 1986-87**
Residence accommodation is available for up to 385 full-time diploma students in two modern dormitories. Accommodation and 14 meals per week costs approximately $1 200 for the college year.

**Tuition Fees (subject to revision)**
Tuition per year $396 (Canadian students); $792 (foreign students).

The total cost per year, including tuition, residence, meals, books, and miscellaneous expenses, is between $2 000 and $2 500, depending on the diploma program.

**Financial Assistance**
Bursaries, scholarships, and other financial awards are offered by various organizations and municipalities. Students are also eligible for assistance from the Ontario Student Assistance Program.

**Further Information**
*For further information, please contact*
Principal
Centralia College of Agricultural Technology
Huron Park, Ontario N0M 1Y0
Telephone (519) 228-6691

# Kemptville College of Agricultural Technology

## Kemptville

**Principal: John D. Curtis**

Postsecondary courses leading to diplomas in dairy cattle production and management, field crops and livestock production and management, horticultural production and management, home economics, and food service supervision are offered at the Kemptville College of Agricultural Technology.

**Enrolment 1986-87**
Total 218

**Admission Requirements**
The OSSGD or equivalent is required, including successful completion of Grade 12 English and mathematics (general or advanced level). Applicants unable to meet the English or mathematics requirement but who have a good academic record will be considered. Consideration is given to mature students. Mature students may register for credit as full-time students or as part-time students taking individual courses.

Agricultural experience is recommended for all students registering in agriculture.

**Diploma Courses Offered**
The academic year at Kemptville is divided into two semesters, and the programs are two years in length. Semesters begin in September and January, and each semester is a prerequisite for the next.

**• Dairy Cattle Production and Management**
This program concentrates on the needs of the dairy industry of Eastern Ontario. It is strongly recommended for those students who are returning to a dairy enterprise or who wish employment in agri-business firms that service the dairy industry.

**• Field Crops and Livestock Production and Management**
The course material for this program in the junior year is similar to that of the dairy cattle program. In the senior year the emphasis is on non-dairy animals, particularly swine and beef-cattle. This program is oriented towards the student who is more interested in the cash crop and/or market livestock type of enterprise, either from the producer or service business viewpoint.

**• Horticultural Production and Management**
Students in this program are introduced to principles of horticulture that apply primarily to horticultural crops, especially fruits and vegetables. Concepts of ornamental horticulture are introduced but are not a major part of the program.

**• Home Economics**
This program, which may be completed in four semesters, covers a range of training to prepare graduates for management careers in food service and merchandising. Mature students may register for credit as full-time students or as part-time students taking individual subjects.

**• Food Service Supervision**
This program, which may be completed in four semesters, concentrates on subject areas in the

food service industry related to the health care field. The course, approved by the Ontario Dietetic Association, qualifies graduates for immediate membership in the Canadian Food Service Supervisors' Association. Mature students may register for credit as full-time students or as part-time students taking individual subjects.

**• Certificate Courses Offered**
Agricultural welder fitter, farm equipment mechanic, dairy herdworker, farrier (horseshoeing), bulk tank milk grader, milk and cream grader, milk and cream tester, and dairy plant worker (specialization in cheesemaking, buttermaking, ice cream making, or fluid milk processing).

**• Apprenticeship Courses Offered**
Farm equipment mechanics apprenticeship

**• Community Programs Offered**
A wide variety of courses, seminars, workshops, and conferences are offered in response to the needs of the agricultural and food industry. Further information may be obtained by contacting the Continuing Education Section at the college.

**Living Accommodation**
The Kemptville College of Agricultural Technology will provide accommodation for most full-time students wishing to live on campus.

**Financial Assistance**
A number of bursaries are offered by charitable organizations, municipalities, and individuals to deserving students. Special awards, scholarships, and prizes amounting to several thousands of dollars are generously donated by benefactors each year. Students may also apply for grant/loan assistance from the Ontario Student Assistance Program. For details see the introductory section, *Financial Assistance for Students.*

**Tuition Fees**
Canadian students per semester $198
Foreign students per semester $396
Room and meals, student activity fees, books, and miscellaneous expenses bring the total to about $850 to $950 per semester.

**Further Information**
*Inquiries should be addressed to*
Registrar
Kemptville College of Agricultural Technology
Kemptville, Ontario K0G 1J0
Telephone (613) 258-8335

# New Liskeard College of Agricultural Technology

## New Liskeard

**Principal: W.R. Allen**

The college was established in 1966 to provide technical agricultural education. The campus is located in the town of New Liskeard, 160 kilometres north of North Bay.

**Enrolment 1985-86**
Total 65

**Admission Requirements**
An OSSGD (Grade 12) is the basic entrance requirement. English, mathematics and science are desirable.

In response to the changing high school program it is expected that in 1988, students entering the diploma program will require 30 credits at the general or advanced level. Preference will be given to those students having English and mathematics at the Grade 12 level.

For mature students, special consideration will be given to applicants whose qualifications, background, and experience may be judged equivalent to the basic requirement. Please contact the college to determine your eligibility for entrance as a mature student.

**Diploma Courses Offered**
New Liskeard College of Agricultural Technology follows the semester system. Courses are taught using a combination of lectures and laboratory sessions. The number of lectures and labs will vary, depending upon the type of courses being offered. The forty-minute lecture periods are used to present the course theory, while the eighty-minute laboratory sessions allow students to work on the practical applications of that theory.

Options are available in dairy cattle technology, equine technology, and livestock technology. Each option leads to a two-year diploma in agriculture.

**Living Accommodation**
Accommodation is available in two student residences on campus. Students may also arrange accommodation in private homes in New Liskeard or on surrounding farms.

**Further Information**
*Inquiries should be addressed to*
Principal
New Liskeard College of Agricultural Technology
New Liskeard, Ontario P0J 1P0
Telephone (705) 647-6738

# Ridgetown College of Agricultural Technology

## Ridgetown

**Principal: D.W. Taylor**

Ridgetown is midway between London and Windsor, in the centre of the prosperous farming area of western Ontario.

It has modern facilities for agricultural teaching that include laboratories, a library, and greenhouses, as well as agronomy, student residence, and livestock buildings. There is a 182-hectare college farm for demonstration and research purposes.

**Enrolment 1986-87**
Total 253

**Admission Requirements**
The OSSGD or equivalent is required for admission to diploma courses. Mature students with less than the OSSGD will be considered on individual merit.

**Diploma Courses Offered**
The academic year at Ridgetown is divided into two terms, and the programs are two years in length. Terms begin in September and January, and each term is a prerequisite for the next.

**• Agricultural Production and Management**
This program is designed to provide training for careers in the business of farming but is flexible enough to allow for careers in agribusiness. The course consists of a basic core of subjects plus electives. Majors can be taken in field crops and livestock, or field and horticultural crops. Through the selection of electives, students may direct their area of emphasis toward their chosen field of study.

**• Agricultural Laboratory Technology**
This program is designed to train students in fundamental laboratory principles and techniques and their application in the agriculture and food industry. It consists of basic subjects, but the emphasis is on the laboratory aspects of agriculture. Employment opportunities exist in research, testing, and quality control in connection with food processing, meat and milk products, agricultural chemicals, fertilizers, feeds, and seeds.

**• Agribusiness Management**
This program trains people for management and office positions in agricultural business. It concentrates upon business techniques, accounting, record keeping, marketing, budgeting, and finance to meet the needs of modern agribusiness. It also provides exposure to agricultural practice and theory as well as keyboarding and data processing.

**Financial Assistance**
A number of bursaries, ranging from $250 to $600 each, are awarded annually to students requiring financial assistance. In addition, almost $10 000 is made available by special county awards, service club donations, and memorial and scholastic awards and prizes. Students may also apply for grant/loan assistance from the Ontario Student Assistance Program. Loans are also available from the J. Harold Willson Student

Loan Fund. See introductory section *Financial Assistance for Students*.

**Living Accommodation**
Students live on campus in Steckley Hall.

**Fees**
Tuition is approximately $198 per term. Room and 14 meals per week, student activities fees, books, tuition, and miscellaneous expenses amount to $1 415.73 per year.

Tuition fees for those without Canadian citizenship or landed immigrant status are $396 per term.

**Further Information**
*Please address further inquiries to*
Principal
Ridgetown College of Agricultural Technology
Ridgetown, Ontario N0P 2C0
Telephone (519) 674-5456

# Canadian Coast Guard College

**Ministry of Transport**

The Canadian Coast Guard College in Sydney, Nova Scotia, offers excellent training and career opportunities to men and women who have a desire for a seafaring life and want to see more of, and learn more about, Canada.

The college's aim is to produce professionally competent Coast Guard officers who have an understanding of modern leadership and management.

As graduate officers, they may serve aboard powerful ice-breakers, in search and rescue craft, aboard a cable-laying vessel, or in the lighthouse and buoy-tending vessels that constantly travel Canada's shipping lanes to ensure that the nation's marine commerce moves in safety. The fleet has more than 60 vessels of sea-going size and includes some of the most modern ships of their type in the world.

**Enrolment**
42 officer-cadets

**• Training**
The college training course commences in August and includes mathematics, physics, marine law, mechanical training, electrotechnology, computer science, and other fields related to shipping, as well as courses directly concerned with the ship's deck or engine-room operation. The training period (the length of which is subject to change) is divided into several phases for both courses:

Navigation cadet
- 12 months at the college
- 7 months at sea
- 9 months at the college
- 8 months at sea
- 9 months at the college

Marine engineering cadet
- 16 months at the college
- 4 months at sea
- 12 months at the college
- 5 months at sea
- 8 months at the college

Strong emphasis is placed on acquiring a working knowledge of both official languages so that graduates will be able to serve aboard vessels anywhere in Canada upon completion of their training.

Applicants must be prepared to serve as officers in the Canadian Coast Guard at sea for a period of four consecutive years immediately after graduation from the college.

**Admission Requirements**
To be considered for admission to the Canadian Coast Guard College, students must successfully complete secondary school, university preparatory, with Grade 12 mathematics, at least one year (preferably two years) of high school physics, and a second language. Chemistry would be an asset. Candidates may be asked to set a standardized test and a personal interview, as well as undergo a pre-employment medical examination related to career requirements.

Students with an OSSGD or those who will receive it in 1988 are eligible to apply. Proof of graduation must be provided before an appointment as an officer cadet can be made. The closing date for application is January 31 of the year of entry.

**Benefits**
Cadets receive a monthly allowance ($180-$220) while attending college. Sea training allowances will increase the total allowance to $14 000 over the length of the program. Upon joining, cadets receive travelling expenses from home to college. Return travelling expenses are covered, after the first $25, from the college to home once yearly, at Christmas, by the most economical means.

Cadets receive free uniform issue, books, and board and lodging. They are covered by Government Employees' Workmen's Compensation and are eligible to participate in the Public Service Superannuation Plan, group surgical-medical provision, and many other benefits.

**Physical Education**
The college has a physical education program under the direction of qualified instructors.

**Further Information**
*Requests for the application package and information concerning the Canadian Coast Guard College should be directed to*
The Registrar
Canadian Coast Guard College
Box 3000
Sydney, Nova Scotia B1P 6K7

# Canadian Memorial Chiropractic College

## Toronto

Chiropractic is a branch of the health sciences concerned with the relationship between the structure and function of the body and their impact upon health and disease. Chiropractors view health from the perspective of the functioning of the nervous system and attempt to restore health by removing interference from the normal functioning of the nervous system. Often this is accomplished, among other methods, by the manipulation and adjustment of structures related to the nervous system, especially the vertebral column.

Founded in 1945, the Canadian Memorial Chiropractic College is a non-profit, professionally owned institution of higher learning providing modern facilities including classrooms, laboratories (including a fully equipped anatomy laboratory), an auditorium, two teaching clinics, and a fully equipped X-ray department with instructional X-ray facilities. The course of study covers four years of approximately 4 428 hours, including basic sciences, chiropractic sciences, and clinic training including internship. The program leads to graduation with the Doctor of Chiropractic diploma.

**Enrolment 1986-87**
Full-time 559

**Admission Requirements**
A candidate for admission must have completed Ontario Grade 13 or have the equivalent standing as determined by the Ontario Ministry of Education. In addition, candidates must have completed two academic years at a university in Canada or equivalent (10 credits, 60 semester hours) and have standing in prerequisite courses in biology, general chemistry, organic chemistry, psychology, and physics. Candidates from the province of Quebec must have a minimum of two years of study in the Colleges of General and Professional Education (CEGEP). Applicants in doubt as to their qualifications are advised to submit their references and academic records to the registrar for evaluation and consideration.

**Financial Assistance**
Several admission scholarships, bursaries, and in-course awards are available. Further information may be obtained from the college calendar or the registrar.

Ontario students may also be eligible for assistance on the basis of assessed need under the terms of the Ontario Student Assistance Program. Students from other Canadian provinces should contact their provincial government for information on financial aid.

**Living Accommodation**
While the college does not maintain residence accommodation, a housing service is available through the Office of Student Services. Approximately 40 positions each year can be obtained at the student residences of the nearby Glendon College. Applications must be made early to: Dean of Students, Glendon College, 2275 Bayview Ave., Toronto M4N 3M6.

**Tuition Fees**
1986-87: $6 000 (not including incidental expenses of $205).
Tuition fees for students from Quebec and for students from outside Canada are $7 500 (not including incidental expenses of $190). First-year students are required to pay application, interview, and registration fees totalling $400 ($250 of which is applied to tuition fees).

**Further Information**
*For further information, please contact*
Registrar
Canadian Memorial Chiropractic College
1900 Bayview Ave.
Toronto, Ontario M4G 3E6
Telephone (416) 482-2340

# Certified General Accountants Association of Ontario

## Toronto

**Executive Director: Gordon W. Fuller, F.C.G.A.**

Certified general accountants are members of Canada's second-oldest accounting organization (incorporated in 1913) and are found in financial positions such as controller, treasurer, director of finance, auditor, and tax specialist.

The CGAO offers a course of study that will prepare the student to become a direct participant in management. The student studies subjects such as economics, law, information and computer systems, income tax, accounting, and auditing, to name a few.

Graduate CGAs are self-reliant, determined people with the ability to concentrate on a problem and carry it through to solution. This ability is a direct result of the CGA program, which allows the student to learn while earning a living in related employment.

Graduation qualifies you for the designation CGA and membership in the association.

**Student Enrolment 1986-87**
Total 7 800

**Admission Requirements**
The national minimum entrance requirement is Grade 12 or equivalent. Approximately 70% of those entering the course do so after having graduated from university or college. These students receive advanced standing in the CGA program. Students enrolled with the CGA Association may select the type of business in which they wish to be employed and gain their practical experience; the choice is entirely theirs. All applicants must be residents of Canada.

**•Program of Study**
The program is primarily on a self-study basis and is supplemented by lectures in 18 locations throughout the province. These lectures are generally held in universities and colleges.

A unique feature of the CGA course is that it is the only accounting course that offers options. The versatility of the option program allows senior students to specialize in one of five areas in the fifth level.

Senior students may now specialize in financial management, management accounting, public administration, public accounting, and taxation, or take a general option.

The course is national, and all subjects are identical in each province. Students may, therefore, transfer from province to province without any disruption in their study program.

**Salaries**
A salary survey conducted in December 1985 showed CGA salaries both for students and graduates to be at a high professional level. This is indicative of the steady and increasing demand for accountants with a broad educational background who have more versatility than those specializing in a narrower field.

**Modular System**
CGAO has a modular system of study that enables students to vary their subject sequence to

suit both the demands of their employer and their own personal needs.

**Services**
Students and members participate in and benefit from active local chapter associations. CGAO also operates a career counselling service and a comprehensive library and provides its members and students with their own professional magazine and optional professional development courses and seminars.

**Further Information**
*For further information, please contact the Director of Student Services at one of the following offices*
The Certified General Accountants
Association of Ontario
480 University Ave.
4th Floor
Toronto, Ontario M5G 1V2
Telephone (416) 593-1103

The Certified General Accountants
Association of Ontario
107 Sparks St.
Suite 301
Ottawa, Ontario
K1P 5B5
Telephone (613) 232-5363 or (613) 232-5364

## Hospital Programs

The following programs are offered at the hospitals indicated.

**Medical Laboratory Technology*†**
*Two years*
Offered at: McKellar General Hospital
Ridgeway St.
Thunder Bay, Ontario P7E 1G6
Telephone (807) 623-5561

**Radiography*†**
*Two years*
Offered at: Kingston General Hospital
Stuart St.
Kingston, Ontario K7L 2V7
Telephone (613) 548-3232 ext. 4267

**Radiotherapy**
*Thirty-two months*
Offered at: The Princess Margaret Hospital
500 Sherbourne St.
Toronto, Ontario M4X 1K9
Telephone (416) 924-0671
ext. 4946/4947

*These programs are also offered at colleges of applied arts and technology. See the CAAT chart at the beginning of this directory.

†These programs are also offered at Toronto Institute of Medical Technology. Refer to the Toronto Institute of Medical Technology listing in this directory.

## Institute of Chartered Accountants of Ontario (CA Ontario)

### Toronto

**Executive Director: David A. Wilson, F.C.A.**

Chartered accountancy is one of the most rapidly expanding professions. The diversified practical experience of the chartered accountant is increasingly in demand in public practice, as well as in business, industry, government, and education. As a result, the institute's membership grew from 5 000 in 1962 to approximately 20 000 in 1987.

The institute, which was founded in 1879, educates and examines candidates for the profession and regulates the professional standards of its members and students. Only members of the institute can call themselves chartered accountants and use the designation CA or FCA.

Chartered accountants are trained as professional public accountants. As members of the Institute of Chartered Accountants of Ontario – the qualifying body under Ontario's Public Accountancy Act – CAs are eligible for a public accountant's licence. In addition to practising public accounting, many CAs hold senior positions in a variety of other fields.

**Student Body**
In 1986, the institute registered approximately 1 300 new students and 769 students received their designation. The total student enrolment was approximately 4 500.

The profession has been attracting an increasing number of female students over the last several years, and they represented about 35% of 1986 enrolment.

**Admission Requirements**
University graduation is the basic admission requirement to the program of study leading to the CA designation. Most students enrol in the CA program after receiving a commerce or business administration degree. Many CAs have found obtaining a degree in arts, science, engineering, or other disciplines can also provide an effective educational background for the profession.

Mature students who do not have a university degree may request exemption from the university degree requirement. Arrangements can also be made for those people who are working toward a degree on a part-time basis.

In addition to a university degree, the educational requirements include a prescribed series of regular degree courses totalling 45 credit-hours (approximately 15 university semester courses) in accounting and related subject areas.

**• Program of Study**
Students fulfil the 45 credit-hour requirement at the university of their choice, either as part of their degree course requirements or through additional studies after graduation.

Students must also obtain employment in a CA office designated for the training of students and register with the institute in order to start the three years of practical experience they must acquire. Exceptional students may qualify for a reduction from three to two years in the practical experience requirement. Details are available from the institute.

The educational program also requires students to successfully complete the institute's school of accountancy – a six-month program of independent study followed by four weeks of full-time instruction. Held in June of each year, the school covers material that is professional, applied, and advanced in nature and relates to significant developments in auditing, professional practice, accounting, and taxation. The emphasis is on the aspects of public practice that should be mastered by the time a person qualifies as a chartered accountant.

One of the requirements for admission to the school is passing examinations in accounting, auditing, and taxation. The examinations are based on university courses completed within or in addition to the student's degree program and are held every August and May. To be eligible to write them, a student must be registered with the institute or have satisfied certain pre-registration requirements. In addition, the credit-hour requirements in the areas of accounting, auditing, and taxation must be completed before the related examinations can be written. Students must complete the school before attempting the Canada-wide Uniform Final Examination (UFE).

**•Co-operative Programs**
Several Ontario universities, listed below, offer CA co-operative programs of alternating work and study terms that are approved by the institute. Students may complete the 45 credit-hour requirement in these programs and fulfil, in some cases, up to two years of the practical experience requirement as part of the degree program.

The University of Waterloo offers three CA degree programs.

A combined honours B.A. in accounting and Master of Accounting degree program has received special status from the Institute of Chartered Accountants of Ontario. Graduates of this program will proceed directly to write the Uniform Final Examination.

The other two programs are honours (co-op and regular) chartered accountancy studies in the Faculty of Arts and honours (co-op and regular) mathematics (chartered accountancy option) in the Faculty of Mathematics.

Wilfrid Laurier University offers a CA co-op undergraduate degree program in business administration. Brock University has a CA co-op undergraduate degree program leading to an honours Bachelor of Administration degree. The University of Ottawa offers a Bachelor of Commerce co-op degree program.

McMaster University offers a CA co-op program in business administration. The program is similar in approach to other co-op programs, except that it is at taken the graduate level.

*Further information on these programs may be obtained from*
School of Accountancy
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 6536

Faculty of Mathematics
Division of Mathematics for Industry and Commerce
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 2198

Office of Co-operative Education
Wilfrid Laurier University
75 University Ave. W.
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2484

School of Administrative Studies
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550 ext. 3446

University of Ottawa
275 Nicholas St.
Ottawa, Ontario K1N 6N4
Telephone (613) 564-4099

Faculty of Business
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4430

**Deadline for Registration**
Students register with the institute as soon as they are employed by a CA office designated for the training of students. Applicants must also comply with the university registration dates for extramural students enrolling in degree courses. Details should be obtained from the university chosen by the applicant.

**Fees**
Students can obtain information about university course fees directly from the university of their choice.

In addition, students must pay the institute's registration fee when they enter the program and an annual fee each year thereafter. In 1987 these fees were $95 and $130 respectively. The fee for the institute's School of Accountancy admission examinations is $80 per examination. The School of Accountancy fee was $840 and the final examination fee was $640 in 1987.

**Student Salaries**
Chartered accountancy students are full-time employees of practising firms. Articling students' salaries are fully competitive with salaries that may be offered in other positions open to them.

**Further Information**
*For further information, please contact*
The Office of the Registrar
The Institute of Chartered Accountants
of Ontario
69 Bloor St. E.
Toronto, Ontario M4W 1B3
Telephone (416) 962-1841

# Institute of Chartered Secretaries and Administrators in Ontario

## Toronto

**General Manager: R.W. Pogson, C.A., P.Adm.**

The Institute of Chartered Secretaries and Administrators in Ontario (ICSA) is an international professional organization of executive administrators. The Ontario institute is one of six provincial branches of the Canadian division. Although knowledge of the function of secretary of the board of directors is a major requirement for ICSA examinations, a wide knowledge of public as well as business administration is also necessary. Members and students are employed in a wide variety of positions: university, hospital, and school administrators; clerk-treasurers of municipalities and administrative positions to the level of deputy minister in the public sector; and president, vice-president, secretary, treasurer, comptroller, etc., in the private sector. Members of other professions such as lawyers and accountants have earned the ACIS (Associate) or FCIS (Fellow) designations.

Established in Canada in 1920, the ICSA is incorporated provincially (including Ontario) and federally. The current international membership of ICSA is approximately 50 000.

Although membership is obtained by passing examinations, graduates must also meet the standards of the position held and have the requisite number of years of working experience. If graduates cannot immediately meet such standards, they become licentiates until such time as these qualifications are attained.

**•Program of Study**
Under the ICSA's syllabus a student must pass fourteen examinations in management and corporate secretarial subjects. The first six prerequisite courses may be examined by approved institutions. The final eight courses in the professional program are to be taken by correspondence courses or through an approved educational institution and, in all instances, examined by the ICSA. When courses are taken at an educational institution, a transcript is necessary before the professional examinations may be written.

Exemptions are available, and the well-qualified entrant may reduce the number of examinations to a minimum of five.

**Registration**
Before writing an institute examination, the student must be registered. The majority of registered students are in Ontario, where the Ontario branch has chapters in Toronto and Ottawa. Because a primary objective of the ICSA is to train its members' successors, continuous liaison is maintained with students. Co-operating universities and colleges have their own deadlines for registration for lectures.

The ICSA holds examinations in May and December each year.

**Student Awards**
A gold medal is given each year to the graduating student who achieves the highest aggregate marks in examinations. Prizes and other awards are open to competition on a national and branch basis.

### Salaries

As the membership of the Ontario branch includes senior executives and corporate secretaries of large corporations, as well as those in intermediate administrative positions and students beginning careers in management, it is not possible to establish a salary range even as an average. However, most ICSA graduates earn salaries at least equivalent to those offered by accounting bodies.

### Fees

Fees are assessed for the annual student registration and for exemptions granted. Information may be obtained from the administrator in the national office.

### Services

The institute regulates the professional standards of its members and students, and only members may describe themselves as chartered secretaries and use the FCIS or ACIS designation after their names. At the various levels (national office, branch, and chapter) the ICSA offers a wide variety of services, including dinner and other meetings, a placement service, a quarterly magazine, conferences and seminars, research and information, and continuing education generally. Students are always invited to attend meetings of members.

### Further Information

*For further information please contact*
The Administrator
Ontario Branch
The Institute of Chartered Secretaries
and Administrators
2 Carlton St. Suite 804
Toronto, Ontario M5B 2K2
Telephone (416) 591-6578

## Niagara Parks Commission School of Horticulture

## Niagara Falls

**Superintendent: William Snowden**

The Niagara Parks Commission School of Horticulture was established in 1936 as a training school for apprentice gardeners. It is situated on the Niagara River Parkway between the Whirlpool and the Queenston-Lewiston Bridge and has some 100 acres of intensive garden developments. The school has retained many features of the apprenticeship system and is funded from earnings of the Niagara Parks Commission. The school year commences in April, and the course of study extends for 36 consecutive months. The work or study week is 40 hours in duration for all students other than those on special duty or foremanship served on a rotational basis. Accommodation is provided on the campus for the first two years.

Facilities include a residence with kitchen and dining room, an administration building with lecture halls, a library, laboratories, and offices. A visitors' reception centre houses an arboretum office, herbarium, and other facilities. The grounds embrace a rose garden with a pergola, a herb garden, fruit and vegetable gardens, greenhouses, and other service buildings.

The program is dedicated to a broad range of practical and academic skills related to the non-agricultural use of land and vegetation for human use and enjoyment, with special reference to ornamental horticulture. The program prepares students for immediate responsibilities in the work place but also offers an optimum preparation for those who aspire to further studies in horticultural sciences, landscape architecture, and the administration of public and private lands. Courses are given in arboriculture, greenhouse management, floriculture, turfgrass maintenance, horticultural chemicals, botanical sciences, entomology, drafting, surveying, soils, landscape design, English, human relations, and small business management.

A substantial portion of the graduates find employment in the field of park maintenance and administration, and an increasing number find employment in private enterprise in the landscape, nursery, and greenhouse industries, golf courses, and horticultural sales. Others undertake graduate courses and teaching positions.

### Enrolment 1986-87

Total 36 (12 per year)

### Admission Requirements

A minimum of Grade 12 or its equivalent is required, with a 60 per cent average in English (four years), mathematics (four years), chemistry (preferably two years), and biology (preferably two years).

Previous summer work experience in horticultural activity is also required. The extent and nature of this work has an important bearing on candidates' selection for admission.

A candidate must demonstrate that he/she is physically fit, is a Canadian citizen, and has a commitment to a horticultural career. Inquiries or visits are encouraged at all times. Applications are accepted until June 30 each year for admission each April of the following year.

### Program Offered

A three-year diploma program in general horticulture leading to the N.P.D., with practical work experience and academic training in equal balance. No options are offered. The curriculum includes courses in arboriculture, botany, entomology, floriculture, fruit culture, greenhouse management, landscape design, plant identification, plant pathology, seed production, and soils.

### Fees

Tuition fees are $650 per year. This includes a $100 field trip fee. A deposit (refundable) of $600 is required on admission.

### Residence Accommodation

Accommodation and prepared meals are provided on campus for the first two years at no charge. Third-year students are required to live off-campus at their expense.

### Student Financial Allowance

As partial compensation for the students' work effort, an allowance is paid on a graduated scale for the three years (currently $26 – $28 – $40 per week).

### Further Information

*Write to*
Admissions
School of Horticulture
The Niagara Parks Commission
P.O. Box 150
Niagara Falls, Ontario L2E 6T2
Telephone (416) 356-8554

## Nursing Assistant Program

Nursing assistant programs provide an opportunity for men and women to enter the field of nursing. All programs offer courses in the biological and social sciences that have application to the theory and practice of basic nursing, as well as planned clinical experience under faculty supervision. Upon successful completion of a program, graduates are eligible for admission to the examination conducted by the College of Nurses of Ontario, leading to registration and certification of nursing assistants in Ontario.

The registered nursing assistant works together with the registered nurse to provide nursing care to individuals in various health care settings such as hospitals or continuing care facilities. The role of the registered nursing assistant is to carry out delegated nursing assignments under the supervision of the registered nurse.

Nursing assistant programs, except for those in secondary schools, are 36 to 40 weeks in length.

Following is a list of the nursing assistant programs in Ontario:

**Colleges of Applied Arts and Technology**
The academic prerequisite for the nursing assistant program is 27 Ontario secondary school credits or the equivalent, or mature student status (an applicant must be 19 years of age or older).

Belleville: Loyalist College
Brockville: St. Lawrence College Saint-Laurent
Guelph: Conestoga College*
Kingston: St. Lawrence College Saint-Laurent
North Bay: Canadore College†
Orillia and Owen Sound: Georgian College†
Oakville: Sheridan College
Oshawa: Durham College
Ottawa: Algonquin College (French and English programs)
Rexdale (Toronto): Humber College†
South Porcupine: Northern College
St. Thomas: Fanshawe College†
Toronto: Centennial College
Windsor: St. Clair College†

**Regional Schools for Nursing Assistants**
These schools are sponsored by the Ontario Ministry of Colleges and Universities and Ministry of Education. This program admits applicants with a minimum of 14 Ontario secondary school credits or comparable standing, and mature applicants (19 years of age and older, who must meet the above requirements or provide proof of successful completion of English, mathematics, and science at the Ontario Grade 10 level).

*Hamilton:* Regional School for Nursing Assistants
430 York Boulevard, L8R 3K8
Telephone (416) 529-1187

*London:* Regional School for Nursing Assistants
205 York Street, 2nd Floor, N6A 1B4
Telephone (519) 432-7506

*Sudbury:* Regional School for Nursing Assistants
40 Larch Street, 3rd Floor, P3E 5M7
Telephone (705) 673-5001

*Thunder Bay:* Regional School for Nursing Assistants
1111 Victoria Avenue, 2nd Floor, P7C 1B7
Telephone (807) 475-1615

*Toronto:* Regional School for Nursing Assistants
90 Gerrard St. W., 3rd Floor, M5G 1J6
Telephone (416) 965-2131

**Hospitals**
For information concerning academic admission requirements to a nursing assistant program in a hospital school, contact the hospital school.

Collingwood: Collingwood General and Marine Hospital
Cornwall: Cornwall General Hospital
Elliot Lake: St. Joseph's General Hospital
Fort Frances: La Verendrye Hospital
Kenora: Lake of the Woods District Hospital
Lindsay: Ross Memorial Hospital
Sturgeon Falls: West Nipissing General Hospital (in French)
Wingham: Wingham and District Hospital

**Secondary Schools**
The following secondary schools offer the nursing assistant program in Grades 11 and 12. The program is taken concurrently with other secondary school courses.

London: H.B. Beal Secondary School
Newmarket: Huron Heights Secondary School
Peterborough: Kenner Collegiate Vocational Institute
Toronto: Central Technical School

**Financial Assistance**
Student nursing assistants at colleges of applied arts and technology, regional schools for nursing assistants, and hospital schools are eligible to apply for assistance from the Ontario Student Assistance Program. For information on this government assistance program, see the introductory section *Financial Assistance for Students.*

**Further Information**
For further information on nursing assistant programs, contact the institution offering the program you have selected. For information on other health science programs, refer to the CAAT chart, the university chart, or the section on the Toronto Institute of Medical Technology in this directory.

## Ontario College of Art

## Toronto

**President: Norman B. Hathaway**

For more than 100 years, it has been the purpose of the Ontario College of Art to educate those who will become professional artists and designers. In that time curricula and emphases have changed to meet the challenge of changing times, as they will continue to do, but the fundamental quality of the college has remained constant. From the beginning, OCA has been a place where leading artists and designers meet and work with students to explore the complex processes of creation that art and design involve.

**Enrolment 1986-87**

| | Undergraduate | Graduate |
|---|---|---|
| Full-time | 1 334 | – |
| Part-time | 1 913 | – |

**General Admission Requirements**
Candidates for the A.O.C.A. (Associate of the Ontario College of Art) diploma for the 1988-89 academic year will have completed the requirements for the OSSD (30 credits). It is recommended that applicants to Foundation Studies have completed at least six OACs within their OSSD. It is understood that the present OSSGD with 27 credits will be acceptable from applicants who graduate, or have graduated, before the introduction of the OSSD.

Due consideration is given to additional academic achievement, relevant experience, and specialized education in art or design. Applicants lacking this academic standing may be admitted as mature students if they are at least 21 years of age. An interview is required, and it is strongly recommended that applicants bring a portfolio. Applications for admission in September 1988 will be closed April 1, 1988.

**• Undergraduate Program**
The college grants the A.O.C.A. diploma upon graduation from the four-year program (32 credits).

In first year, the student is introduced to a broad variety of ideas, approaches, media, materials, methods, processes, and applications through the program of the Department of Foundation Studies. This program is designed to heighten perception and awareness and to develop visual creativity. The compulsory courses include: drawing, two-dimensional design, three-dimensional design, media, colour, and a lecture/seminar course. After first year, the student may take one of two approaches: a general studies program, which allows free choice among all of the offerings available in the various departments; or a specialist program, which permits concentration upon a particular area or areas of study with a single department. Specialist programs of study may be undertaken in the departments of Communication and Design, Design, Experimental Arts, Fine Arts, Photo/Electric Arts, and Industrial Design. It is possible to change from one program to another under certain conditions.

Liberal Arts Studies offers courses designed to complement the student's studio activities. These include anthropology, art history, dance,

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*Part-time program available.

†First semester common to nursing assistant and nursing programs at the college.

English, history, music history, philosophy, psychology, and theatre arts.

The Technological Studies Department offers credit courses in media and materials, process and system, fabrication, and construction and casting methods. It is made up of 14 diversified areas of laboratory and working studios: film, graphic film (animation), holography, light laboratory, sound laboratory, radio, metal, mould making and foundry, photography, plastics, print making, reproduction and type, and wood.

Detailed program and course descriptions are listed in the college calender, available through the Registrar's Office.

Each student will have a faculty adviser who will assist in choosing courses and in formulating long-range program objectives. The adviser will be concerned with developing with the student an ongoing and open communication to foster overall progress and general welfare.

Students in years 2, 3, and 4 will choose their advisers from among the faculty members. When possible, this adviser will be one of their course instructors. Students are expected to meet individually with their adviser at least once a month.

**• Postdiploma Program (Graduate)**
The Ontario College of Art offers a fifth year of study to students holding the A.O.C.A. diploma or its equivalent. The program is designed to provide students with a year of intensive study in one of the fields of concentration offered in the college program. While no further diploma is awarded, admission and academic standing in the fifth-year program, as well as final evaluations, are recorded on the student's academic record.

**• Part-Time and Evening Programs**
The college can accommodate a limited number of part-time students within the regular daytime program.

A variety of credit courses are offered during the evenings and in the summer. Admission requirements, evaluation procedures, and credit requirements for part-time students are the same as those applying to students in the full-time program. Further information and course descriptions are available from the Registrar's Office.

**Transfer Credit Arrangement with the University of Guelph**
Depending on the academic qualifications on admission to the college and on the courses taken, students who graduate with the Ontario College of Art diploma are usually credited with one to one-and-a-half years in the University of Guelph's three-year B.A. program. Because of the trimester system at the University of Guelph, it is possible for the OCA undergraduate to pursue B.A. studies by taking the spring semesters at Guelph, usually May 1 to August 15, following the completion of the OCA regular session in April. In short, it is possible for a student to obtain both the A.O.C.A. diploma and the University of Guelph B.A. degree in less than four full years of study. This possibility will be of particular interest to those who wish to teach art in Ontario schools.

**Tuition Fees (1986-87)**
Total $1 129
Total yearly fee for applicants outside Canada is $4 865.
(Fees subject to change.)

**Financial Assistance**
Students in financial need may apply for assistance through the Ontario Student Assistance Program. (See the introductory section, *Financial Assistance for Students,* for details.) Both full- and part-time students may apply; depending on course load and financial need, they may qualify for a grant or a loan or a combination of both.

**Further Information**
*Admission inquiries should be addressed to*
Mary Brimicombe, Associate Registrar, Admissions
Ontario College of Art
100 McCaul St.
Toronto, Ontario M5T 1W1
Telephone (416) 977-5311

*For information about campus visits or schools liaison, please contact*
Anne Graham, Liaison/Information Co-ordinator
Ontario College of Art
100 McCaul St.
Toronto, Ontario M5T 1W1
Telephone (416) 977-5311 ext. 236

## Society of Management Accountants of Ontario (SMAO)

## Hamilton

**Executive Director: R.W. Dye, CMA, FSMAC**
The Society of Management Accountants of Ontario is the professional body devoted to the training, accreditation, and continuing development of the province's Certified Management Accountants (CMAs). The CMA program, available through the society, specializes in the problem-solving and decision-making needs of management. In order to receive the CMA designation, the required academic program outlined by the society, along with a minimum of two years of practical accounting-related work experience, must be completed. This extensive training qualifies CMAs to provide vital expertise in financial planning, operations control, management information systems, internal auditing, systems planning and analysis, and long-term organizational development. With this background the CMA management accountant often moves directly into a position of responsibility within an organization.

The Society of Management Accountants of Ontario is one of 11 affiliates across Canada through which men and women may earn the nationally recognized CMA designation. Enrolment in Ontario currently approaches 9 000 students. Women now make up over 40% of the new enrollees in the program, and this percentage is growing.

**• Program of Study**
The program's academic level is equivalent to a combination of postsecondary school undergraduate and graduate specialist study. Course materials and examinations are uniform throughout Canada, thus facilitating transfers between provinces for both students and accredited members.

The program provides basic accounting skills and a knowledge of the accounting and taxation procedures required by organizations for their external reporting needs (financial accounting). In addition, CMA studies provide a thorough understanding of the accounting skills required in the management decision-making process and the control of operations (management accounting). Because today's CMA management accountants are such integral members of the management team, several related courses designed to enhance management insights and skills are also included in the curriculum (for example, organizational behaviour, management processes, data processing, information systems, economics, and law).

**• Route to CMA Accreditation**
Most students now prefer to complete a university or college study program before enrolling with the society. All postsecondary schools in Ontario offer courses that can earn exemptions from several of the CMA program subjects. Some schools also offer co-operative programs in management accounting or joint-lecture programs with the Society of Management Accountants of Ontario. Contact the school directly for more information on the availability of these programs.

All of the society's courses are available by enrolling directly with the society. The society offers lecture courses at many postsecondary schools in Ontario. All subjects are also offered by correspondence at least twice each year.

Professional accreditation is earned only after successfully completing each course (by examination through SMAO, or by exemption for equivalent postsecondary studies) and demonstrating an ability to apply skills and knowledge through at least two years of related work experience. This practical experience is frequently gained while students are completing the senior levels of their CMA studies.

**Admission Requirements**
Grade 12 graduation (or its equivalent) is the academic minimum for admission to the first level of the CMA program.

Graduates of other professional associations (universities and colleges – particularly of business and accounting programs) are usually eligible for several exemptions, based upon the quality of the candidate's performance in equivalent courses studied at recognized educational institutions. The society's exemption policy guidelines for individual postsecondary schools and other professional associations may be obtained by contacting the society.

**Salaries**
CMA students and graduates can have such different educational backgrounds and be employed in such a wide range of positions in business and government that to state starting salaries would be meaningless and potentially misleading. However, CMAs enjoy excellent earning power. Here are examples of what graduates can expect to earn if employed at the levels shown: VP finance/treasurer in business, manufacturing, or service sector, $45 000 to $60 000; controller in business, manufacturing, or service sector, $35 000 to $50 000; financial manager in regional, provincial, or federal government, $35 000 to $45 000.

Because CMAs usually play significant roles in their organizations' progress, their salaries should reflect the extent of their contribution. Ultimately, though, their earnings depend on their personal goals and abilities.

**Professional Services**
The 23 local chapters of the Society of Management Accountants of Ontario all hold regular meetings and seminars on matters of professional concern to accredited and student members. Members may also take advantage of such society services as the comprehensive lending library and research facility at the Hamilton office, and a province-wide employment referral service available through the Toronto and Hamilton offices, plus local referral offered by a number of chapters. Other services include: *CMA*, the national society's magazine on management accounting practice, managerial control, and related topics, an annual national conference, a distinguished speakers series, and the publication and distribution of many of the society's research studies.

**Further Information**
*For further information please contact a student counsellor at one of the following offices*

Society of Management Accountants
of Ontario
20 Victoria St., Suite 910
Toronto, Ontario M5C 2N8
Telephone (416) 363-8191

Society of Management Accountants
of Ontario
154 Main St. E.
P.O. Box 2150
Hamilton, Ontario L8N 4A5
Telephone (416) 525-4100
Students outside Toronto and Hamilton call toll free 1-800-387-1741

# Toronto Institute of Medical Technology

## Toronto

**Executive Director: Dr. D.M. Schatz**

The Toronto Institute of Medical Technology is a specialized postsecondary educational institution offering programs in various health technologies. From its beginning in 1966, with one program and 16 affiliated teaching hospitals, it has grown to include six full-time programs and more than 40 affiliated hospitals. It also has a large Continuing Education Division, which offers postgraduate courses for working technologists.

Each full-time program is actively supervised by an advisory council, which consists of medical specialists and technologists from affiliated hospitals, institute teaching staff, and student representatives. It is the responsibility of the advisory councils to ensure that the programs meet the needs of health care and provide the basis for advanced study. Similarly, advisory committees in each specialty assist the Continuing Education Division to identify and meet the needs for continuing education.

The institute's building, in downtown Toronto, features specialized laboratory design and modern equipment, which offer excellent facilities for training in the medical technologies.

A medical technologist should enjoy work of a technical nature and have an interest in sciences. Health workers must possess a sense of responsibility and be able to work carefully and accurately. The ability to work co-operatively with colleagues and to deal with patients effectively and sympathetically is important.

**Enrolment 1986-87**
Full-time 500

**Programs Offered**

- **Medical Laboratory Assistant**

*One-year certificate*
This one-year program is designed to produce graduates capable of performing routine technical procedures under the supervision of registered laboratory technologists. Before the establishment of this program, medical laboratory assistants were trained on the job within the hospital environment and did not possess any recognized qualifications. Recent increases in the scope and volume of investigations carried out by hospital laboratories have expanded the role of laboratory assistants and created a need for formal training.

*Admission requirements*
An OSSGD with mathematics and chemistry at the Grade 12 level and mathematics and one other science at the Grade 11 level.

Students from outside Ontario must have the equivalent educational standing.

- **Cytotechnology**

*Two-year diploma*
The cytotechnologist is responsible for preparation of the various specimens submitted to the laboratory and for careful microscopic examination of the material for cellular changes and abnormal cells. The work is supervised by pathologists, either in a hospital laboratory or in a

centralized screening centre. While many of the duties are routine, they offer great personal satisfaction. Cytology is a specialized diagnostic service that is seldom of an emergency nature; therefore most cytotechnologists work a five-day week and generally do not work evenings or weekends.

*Admission requirements*
An OSSHGD, which must include pass standing in mathematics, chemistry, and one of biology or physics. Students who intend to enter the cytotechnology program are advised to take biology as the second science. Students with an OSSGD who have completed an appropriate first year in a college of applied arts and technology, including mathematics, chemistry, and one other science, may apply for equivalent standing.

Students from outside Ontario must have the equivalent educational standing.

### • Diagnostic Radiography

*Two-year diploma*
The two-year training program is organized jointly by the Toronto Institute of Medical Technology and the affiliated teaching hospitals. An orientation period in a hospital is followed by further training in theory and practice at the institute. The student spends a considerable portion of the two-year period obtaining clinical education in an affiliated hospital.

*Admission requirements*
An OSSGD, including the following advanced level credits from Grade 11 or 12: two mathematics, two English or French, one physics, and one of either chemistry or biology. Two additional sciences at either the general or advanced level are required.

Students from outside Ontario must have the equivalent educational standing.

*Mature students*
A candidate who does not meet the above educational requirements, but who is 19 years of age or over and has resided in Ontario for at least one year, must apply to write the mature student examination. If successful, the candidate may then apply to enter the program.

### • Medical Laboratory Technology

*Two-year diploma*
The current rapid advances in technological knowledge make laboratory technology, one of the oldest established medical technologies, an interesting and challenging career. A laboratory technologist is an important part of the health team because physicians have come to depend on the results of laboratory tests to aid them in the diagnosis of disease and in selection of appropriate treatment. In fact, the practice of modern medicine would be impossible without the facilities of the laboratory. Medical laboratory technology is divided into five major specialties: clinical chemistry, haematology, histotechnology, immunohaematology, and microbiology.

*Admission requirements*
An OSSHGD, including mathematics, chemistry, and one of biology or physics. Students who intend to enter the medical laboratory technology program are advised to take biology as the second science. Any of the three proposed mathematics courses for secondary schools will be acceptable; however, the most appropriate course is mathematics 1, dealing with functions and relations.

Students with an OSSGD who have completed an appropriate first year in a college of applied arts and technology, including mathematics, chemistry, and one other science, may apply for equivalent standing.

Students from outside Ontario must have the equivalent educational standing.

### • Nuclear Medicine Technology

*Two-year diploma*
The nuclear medicine technologist is responsible for the safe and accurate performance of diagnostic tests involving the use of radionuclides. These tests may be divided into two categories: *in vitro* testing involves the use of radioactive chemicals to make analyses of specimens in a laboratory remote from the patient; *in vivo* testing involves the administration of radioactive materials to a patient, followed by specific testing to determine body function. Both types of testing provide answers that aid the physician in determining the nature and extent of disease, thereby helping him or her to decide on the proper treatment.

*Admission requirements*
An OSSHGD, including the following advanced level credits in Grade 11, 12, or 13: two mathematics, two English, one chemistry, one physics, and two additional sciences.

Students from outside Ontario must have the equivalent educational standing.

*Mature students*
A candidate who does not meet the above educational requirements, but who is 19 years of age or over and has resided in Ontario for at least one year, must apply to write the mature student examination. If successful, the candidate may then apply to enter the program.

### • Respiratory Technology

*Two-year diploma*
The respiratory technologist is trained to assist the physician in the diagnosis, treatment, and management of patients with respiratory and associated disorders.

Training is carried out co-operatively by the institute and affiliated hospitals. This program is covered in 20 months: 10 months of instruction at the institute, followed by 10 months of clinical education in an affiliated hospital.

During the first year of training, the student expands his or her knowledge of basic science in the areas of anatomy, physiology, chemistry, physics, pathophysiology, and pharmacology. Practical training is co-ordinated with the theoretical part of the courses, during which the student learns how to use a wide variety of modern respiratory equipment. A period of three weeks is spent in the hospital setting to observe the clinical practice of respiratory technology.

The clinical year provides the student with practical training in an affiliated hospital. The student learns to perform techniques and procedures under actual working conditions.

*Admission requirements*
An OSSGD, with advanced level credits in Grade 12 English, mathematics, and chemistry, and Grade 11 physics.

Students from outside Ontario must have the equivalent educational standing.

Past experience has shown that it is advantageous for the student to have one additional year of secondary or postsecondary education including biology, chemistry, and mathematics.

### Tuition Fees

First year full-time $595
Second year full-time $595
Fees may be subject to change.

### Living Accommodation

As the institute has no residence, students are responsible for finding their own accommodation. Students from outside Toronto are advised to find accommodation close to the subway or close to the institute itself, possibly in one of the student residences located in central Toronto. The Admissions Department will forward a list of possible residences on request.

### Food Services

The institute has cafeteria facilities that operate during the academic year, Monday to Friday, 8 am to 2:30 pm. Students may purchase breakfast, light refreshments, and a hot meal. Vending machine service is available at other times.

### Health Service

The Health Service is staffed by a public health nurse, who offers emergency first aid and a preventive medicine program. The nurse is available for confidential counselling on all types of health problems.

### Student Placement

A placement service is offered to assist graduates in finding employment. Any student who requires assistance in finding employment should register with the placement service.

### Financial Assistance

Students in financial need may apply for assistance from a variety of sources. Further information may be obtained from the Registrar's Office.

### Further Information

*Further information may be obtained from*
The Admissions Office
Toronto Institute of Medical Technology
222 St. Patrick St.
Toronto, Ontario M5T 1V4
Telephone (416) 596-3143

# Correspondence Study

Learning by correspondence offers an accepted alternative to enrolment in regular full- or part-time study programs. People who are unable to attend regular school sessions have the option of continuing their studies in a variety of fields and at different levels. Many people who have missed higher education in the past, who need upgrading, refresher, or work-related courses, or who, out of interest, wish to continue their education, benefit from correspondence study.

In Ontario, correspondence teaching is offered by four types of institutions:

1) Correspondence Education Branch of the Ministry of Education
2) Private vocational schools (private correspondence schools)
3) Universities
4) Colleges of applied arts and technology.

The Ministry of Education offers courses by correspondence in addition to offering the regular elementary and secondary school programs. Private vocational schools provide those people unable to attend school full-time with the opportunity to gain job entry skills. University correspondence courses offer an alternative method of study for degree credit, a professional upgrading of general interest, while colleges of applied arts and technology offer correspondence teaching primarily in the business field.

Learning by correspondence allows a certain freedom with respect to time and place of study and a degree of independence and flexibility with respect to study habits. However, students thinking about study by correspondence should carefully consider the discipline and motivation required to progress without personal contact with teachers and fellow students and without the benefit of school facilities.

**• Universities Offering Correspondence Courses**

University of Guelph
Laurentian University
University of Ottawa
McMaster University
Queen's University
University of Waterloo
University of Western Ontario
Wilfrid Laurier University

The variety of university subjects that may be studied by correspondence is limited, and the number of credits that can be obtained is usually less than that required for a degree or diploma, necessitating further studies as a regular student. The University of Waterloo and Queen's University, because of the range of courses available through the correspondence format, are able to grant degrees through courses taken entirely by correspondence. Because a student is removed from the university campus, there is little or no direct interaction with other members of the class or with the teacher, and the use of the university library is curtailed. However, most universities will attempt to contact a student who is experiencing extreme difficulty, and some offer weekend seminars two or three times a year to assist with problems. Most universities also provide reading lists to facilitate the use of alternative resource centres.

University correspondence courses are usually closely tied to the normal academic calendar, and conditions such as admission requirements, tuition fees, and academic standards are similar to those for regular students.

Academic programs by correspondence may be pursued over an extended period of time, but the normal workload per term is usually a maximum of two courses. Students may, in most cases, combine and/or alternate correspondence work with regular attendance, in compliance with the individual institution's residence requirement for the granting of a degree.

Each course normally requires a final exam that counts as a percentage of the final grade. These are written at a major centre close to the student's home or in isolated areas under the supervision of a responsible person appointed by the university.

Students who wish to take correspondence courses at one university for credit toward a degree at another institution should consult the particular institutional authorities. Some universities may not recognize correspondence courses as credit toward a degree.

Correspondence courses are also offered by universities throughout Canada, credit for which may be accepted by a university in Ontario granting a degree.

For more particular information on courses, application procedures, and types of credit granted, students should consult the individual institutions.

**University of Guelph**

The University of Guelph offers an opportunity to earn a diploma in agriculture or a diploma in horticulture through correspondence study. The Ontario Ministry of Agriculture and Food sponsors this program, which allows opportunity for specialization in such areas as animal production, crop production, general agriculture, nursery operations, landscape contracting, commercial floriculture, turf management, cemetery management, park horticulture, park management, and urban forestry.

Courses can be started at any time, as the program is open-ended, and the majority of students elect courses for up-dating or acquiring knowledge in areas not previously studied. For those wishing to earn a diploma it is necessary to complete approximately 15 courses in a specialized area of the student's choice.

Tuition for each course ranges from $70 to $140 and includes the complete study package. The majority of courses utilize contemporary text materials and a study outline, and several are offered as multi-media packages containing graphically illustrated notes, supported with audio cassettes, filmstrips, or colour microfiche that may be hand-viewed.

A letter of acknowledgement is provided upon the completion of each course, and the Ontario Diploma in Agriculture or the Ontario Diploma in Horticulture is granted upon the successful completion of the diploma requirements.

*Further Information*
Independent Study
University School of Part-Time and Continuing Education
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120 ext. 3375

The University of Guelph also offers several courses by correspondence at the degree level. The current list of available courses includes: personal and family finance, land economics, introductory psychology, psychology of death and dying, human sexuality, financial accounting, and many others.

The program is expanding and although an entire degree is not available, students are able to benefit by taking courses from some of the unique departments of this university.

Send for a Guelph Distance Education Calendar
Room 153, Johnston Hall
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-1330

**Laurentian University**

Laurentian University's "distance education" program, *Envision*, is one of the most diversified in Canada and has students from coast to coast. The program offers about 65 courses, including correspondence, television (on TV Ontario and/or Mid-Canada Communications), video cassettes in 25 learning centres, and teleconferencing, and more are planned. Four of the correspondence courses form part of the university's extension program in Native studies. The distance education courses are all credit courses counting toward a university degree. Manuals outline the course requirements and assignments.

An entire B.A. degree may be completed through *Envision*. Concentrations are available in law and justice, psychology, and religious studies. A certificate in law and justce may also be completed. In addition, three or more courses are available in history, Native studies, philosophy, *sciences religieuses*, and women's studies.

A continuing education student may also take courses either by day or by evening during the winter or attend the evening spring session or the six-week summer session.

Laurentian University also offers courses in some 20 centres throughout northeastern Ontario where students may pursue their university programs.

In January 1987, Laurentian launched a post-R.N. B.Sc.N. program in Sault Ste. Marie, North Bay, Timmins, Barrie, Orillia, and Parry Sound/Bracebridge, with secondary sites in Elliot Lake, Kapuskasing, New Liskeard, and Kirkland Lake. The full degree is guaranteed. A second intake of students is expected in September 1987 or January 1988. Registered nurses interested in the program should write to the Centre for Continuing Education and ask to be placed on a waiting list.

Students who wish to take correspondence or television courses from Laurentian must first obtain general admission to the university. The university waives tuition fees for senior citizens (60 years of age or over) enrolling in credit courses.

Distance education courses generally involve readings and regular assignments throughout the term. Senate regulations stipulate that at least 25% of the final mark is to be determined by supervised examinations that include a mandatory final evaluation upon completion of the course. Examiners are provided by the university, and every effort is made to see that students do not have to travel long distances to reach an examination centre. The university, however, cannot guarantee that this will always be the case for each individual. Teleconferencing courses bring together students at several locations at the same time, using regular telephone lines.

Tuition fee per course is $263, plus incidental fees of $17 per course and instruction fees of $24 per course for television and correspondence courses.

*For information on the correspondence courses*
Centre for Continuing Education and
Part-Time Studies
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3930

*For information on admission requirements*
Office of Admissions
Laurentian University
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3915
Toll free 1-800-461-4030

**McMaster University**

McMaster's certificate program correspondence course is available on a year-round basis, which allows students to begin studies at a time convenient to them. The correspondence course is offered for the following certificate program: Human Services Certificate (with a variety of possible specializations). Fee $116 per course.

No registration is complete until fees have been paid in full. Total fees must accompany the registration.

Persons aged 65 and over may register without payment of a fee; however, a nominal fee of $25 for administration and materials must eventually be paid.

It is recommended that students take no more than two full subjects in one study period. Students who wish to take more than two subjects must secure permission from the Centre for Continuing Education.

*Further information*
Director, Centre for Continuing Education
Commons Building, 116
McMaster University
1280 Main St. W.
Hamilton, Ontario L8S 4K1
Telephone (416) 525-9140 ext. 4321

**University of Ottawa**

The University of Ottawa offers a number of correspondence courses, both in English and in French.

Not more than five correspondence courses can be applied toward a degree at the University of Ottawa. The remaining courses must be taken in residence at the university, either full- or part-time.

Following the sessional dates of the regular academic calendar, correspondence students may not normally take more than one calendar year to complete a full course. Evaluation for correspondence is normally by final examination immediately upon completion of the course.

Tuition fees are $231 for a full course and $115 for a half course.

*Further information*
Correspondence Division
University of Ottawa
165 Waller St.
Ottawa, Ontario K1N 6N5
Telephone (613) 564-2391

**Queen's University**

Queen's University has been offering correspondence programs in the humanities and social sciences since 1889.

Each correspondence course counts as a credit toward a degree in the same way as does the equivalent course given on campus. It is possible to complete the 15 courses required for a three-year Bachelor of Arts degree with a minor concentration in German, politics, or psychology entirely through correspondence study. However, not all courses required for all concentrations are offered by correspondence; therefore, it will be necessary in some instances for a student to attend classes on campus to complete the degree requirements.

Each correspondence course is based on a study guide consisting of (1) an introduction giving the student pertinent information concerning textbooks, materials, and a general outline of the course, and (2) a series of lessons, varying in number according to the course, which must be completed and returned for correction and grading in the appropriate academic department. Correspondence courses require a final examination; some also require progress tests.

Admission requirements to the correspondence program are the same as the regular admission requirements for the university.

*Final dates for registration*

Students are urged to register in correspondence courses by September 1, although registrations will be accepted up to September 15. The Division of Part-Time Studies cannot guarantee that registrations accepted after September 1 will be cleared in sufficient time for the student to receive the course outline, order books, and then begin the course on schedule. On first registration, only one course may be taken.

Tuition fees ($270 per correspondence course) cover registration, lectures, laboratories, use of the libraries, grading of examinations, the final examination, and telephone privileges.

Fees are waived for all persons 65 and over who register for credit courses.

*Further information*
Admissions Officer
Division of Part-Time Studies
Faculty of Arts and Science
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2470

**University of Waterloo**

Several undergraduate degrees in arts, environmental studies, and science can be obtained completely by correspondence from the University of Waterloo. Special pre-university courses are also available.

University of Waterloo correspondence courses use audiotape cassettes, printed course notes, textbooks, and other visual materials where required. These, together with assigned problems, are prepared by the professor to explain and supplement material provided in the texts.

Most of Waterloo's correspondence courses are the one-term half-credit courses, comprising approximately 20 taped lectures of 40 minutes' duration, each with accompanying lecture notes. Students generally take two half-credit courses per term, although they may take from one to a maximum of five half-credit courses per term.

There is no limit to the time that may be taken to complete a degree on a part-time basis. However, students doing degrees on a part-time basis will be treated in the same manner as full-time students in that no student will be allowed an indefinite number of failures while accumulating the course credits required for a degree.

*Credits toward degrees*

Unless otherwise stated, all of the following may be taken entirely by correspondence, or as a combination of correspondence, regular, and summer courses.

*Faculty of Arts*

General Bachelor of Arts degrees: majors in classical studies, economics, English, geography, history, philosophy, psychology, social development studies, sociology, and non-major.

Each requires 30 term courses, the equivalent of a three-year degree when taken full-time on campus.

A four-year general B.A. in history is also available, as well as an honours B.A. in classical studies. Each of these degrees require 40 term courses, the equivalent of a four-year degree when taken full-time on campus.

Correspondence students are required to pass the English Language Proficiency Examination, which is written after completion of 15 of the 30 term courses required for a general Bachelor of Arts degree.

*Faculty of Environmental Studies*

Bachelor of Environmental Studies (Geography)

Requires 30 term courses, the equivalent of a three-year degree when taken full-time on campus.

*Faculty of Science*

Bachelor of Science (general, non-major)

Requires 30 half credits, of which at least 15 must be science half credits, the equivalent of a three-year program when taken full-time on campus.

*Pre-university courses*

Correspondence learning packages are available in chemistry, mathematics, and physics for students who wish to qualify for university level courses but do not have the necessary high school prerequisites. The pre-university courses are non-degree, non-credit courses, which can be used to gain admission to degree programs at the University of Waterloo.

The courses are designed to span four months; however, students may study at their own pace. Two examinations must be taken, one at the mid-point and one at the end of the course unless otherwise stated. A student may begin at any time and apply to write the examinations when ready.

The tuition fee for pre-university chemistry and physics courses is $153 *each,* plus a deposit of $40 for each tape. For the math course, which is divided into algebra, calculus, and functions, the tuition fee is $51 *each,* plus a deposit of $20 for each tape (tape deposits are refundable upon return).

Normally, University of Waterloo correspondence courses are not available to people with mailing addresses outside Canada and the United States.

Tuition fees are $153 for each half-credit course, plus a deposit of $40 for each tape.

Students over the age of 60 who are Canadian citizens or permanent residents will be awarded a university bursary to cover tuition and incidentals for credit courses (not including correspondence tape fee and cost of textbooks). Proof of eligibility for the bursary should be included with the application.

*Application deadlines are:*

| | |
|---|---|
| Fall term 1987 | August 8 |
| Winter term 1988 | October 17 |
| Spring term 1988 | February 13 |

*Further information*
Correspondence Office
University of Waterloo
Waterloo, Ontario, Canada N2L 3G1
Telephone (519) 888-4050

**University of Western Ontario**
The University of Western Ontario offers correspondence courses in arts, science, and social sciences during the winter and summer sessions.

To be eligible for a correspondence course at Western, students must be admitted to Western or have a letter of permission from another university. Summer correspondence students must also have successfully completed at least one other university-level course.

Students may take 10 of the courses required for a B.A. by correspondence; the remainder must be completed either on campus or at an off-campus centre.

Correspondence courses are open to residents of Canada and, during the fall-winter session only, to Canadian citizens living abroad.

Students may take a maximum of one full course (or equivalent) by correspondence during the summer session and two full courses (or equivalent) during the fall-winter session, subject to the regulations governing maximum course loads.

Students registered at other universities may request permission to take correspondence courses at the University of Western Ontario for transfer of credit toward their home university. Students who wish to take courses in this manner must obtain a letter of permission naming the specific courses from the registrar of their university.

The tuition fee for all credit courses is approximately $242, payable at the time of registration.

*Further Information*
Correspondence Supervisor
Faculty of Part-time and Continuing Education
University of Western Ontario
London, Ontario N6A 5B8

*For students who wish to take correspondence courses but who have not previously attended Western, application forms are available from*
Department of Admissions and Academic Records
Stevenson-Lawson Building
University of Western Ontario
London, Ontario N6A 5B8
Telephone (519) 661-2150

**Wilfrid Laurier University**
Telecollege university degree credit courses can be completed by television or in designated communities by teleconferencing. Part of a Telecollege course is a series of half-hour or hour-long lectures on television or two hours by teleconference. Other parts of the program include a textbook, study guide, resource binder, and in some cases audio cassettes.

Instructors co-ordinating Telecollege courses are available during specified office hours to accept toll-free calls to answer questions about the course. Most courses are supplemented through the use of teleconferencing in off-campus locations.

Information on tuition, study kit costs, broadcast availability, and air times for television courses, as well as other details, are outlined in the part-time studies calendar, or by calling 1-800-265-8866 toll free – ask for Telecollege, or by writing to
The Office of Part-Time Studies and
Continuing Education
75 University Avenue West
Waterloo, Ontario N2L 3C5

**University of Windsor**
The University of Windsor offers several courses in the distance education mode as telecourses. Telecourses consist of print material, a text, a study guide, and a television component that may be broadcast on TV Ontario or on WTVS, PBS channel 56 in Detroit. The televised segments are also available on cable television, on video cassette in the library on campus, and in public libraries in the surrounding area of Essex, Kent, and Lambton counties. Audiotapes and occasional class meetings may also be included in telecourses. Students also have access to their professors via telephone tutorials.

For details on courses available each session, please contact:
Ms. Margaret Landstrom
Assistant Director
Office of Part-Time Studies
University of Windsor
Windsor, Ontario N9B 3P4
(519) 253-4232 ext. 3305

### • Correspondence Courses at Colleges of Applied Arts and Technology

Learning by correspondence through the colleges of applied arts and technology is little used as an alternative method of study. In keeping with the colleges' mandate for increased community involvement, emphasis has been placed on part-time and continuing education as the alternative to regular day-time study. Part-time and evening programs are offered by all the colleges at their various campus locations.

There are, however, colleges that do offer correspondence study as an additional study opportunity. Admission requirements are similar to college entrance requirements: satisfactory standing in Ontario Grade 12 or proof of qualification as a mature student (19 years of age and over).

**Algonquin College**
Algonquin College's School of Continuing Education, Business Distance Learning section offers a 12-course certificate program and 23 selected courses through distance education. To pursue the certificate program, the student may select an area of specialty concentrating in economics, marketing, data processing, business quantitative analysis, management studies, accounting, finance, and general business.

Distance learning courses are available to Grade 12 graduates as well as mature students (over 19 years of age). Students may enrol in the distance learning courses at any time.

*Further Information*
School of Continuing Education
Distance Learning Section
Algonquin College of Applied Arts
and Technology
1385 Woodroffe Ave., Room C430
Nepean, Ontario K2G 1V8
Telephone (613) 727-7667

**Centennial College**
Centennial offers a correspondence program, Ophthalmic Assistant Home Study, endorsed by the Canadian Opthalmological Society. Entrance requirements for the two-phase certificate program are:
1) Current employment under the supervision of an ophthalmologist,
2) An OSSGD (or equivalent) or mature student status.

The $65 fee for each course includes course materials (except textbooks) and examinations.

*Further information*
Co-ordinator, Health Programs
Continuing Education Division
Centennial College
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 404

**Conestoga College**
Conestoga's Home Study Program provides students with an opportunity to gain the requirements necessary in mathematics and English for admission to postsecondary programs. After a brief initial testing, students work on their assignments at home. Some tests must be written at the college. The cost is $60 for a 20-week program. There are no entrance requirements, but all candidates are interviewed by teachers before registration. Students may enrol at any time, providing the program is not filled.

A Registered Nurse – Refresher Program and Registered Nurse – Critical Care Nursing Program are also offered through "distance education". The 312-hour Refresher Program is designed to assist registered nurses who have not actively practised nursing for a period of time, to demonstrate competence in accordance with the current standards of nursing practice of the College of Nurses of Ontario. The cost is $1.25 per hour. The 395-hour Critical Care Nursing Program provides registered nurses with specialized knowledge and skills in critical-care nursing. The cost is $1.25 per hour.

*Further information*
Conestoga College of Applied Arts and
Technology
Continuing Education
299 Doon Valley Dr.
Kitchener, Ont. N2G 4M4
Telephone (519) 653-2511 ext. 326/407

**Fanshawe College**
Fanshawe College offers correspondence programs for the Institute of Municipal Assessors of Ontario. Under certain circumstances, these courses can be used as credits toward a Fanshawe College Diploma in Urban Affairs and Real Estate-assessment major.

The college also offers correspondence courses for engineering technicians who wish to meet the technologist certification requirements of O.A.C.E.T.T. In addition, a range of mathematics courses are available on a home study basis.

*Further information*
Dean, Continuing Education
Fanshawe College
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4435

**Humber College**
Humber College offers early childhood education and early childhood education for the developmentally handicapped through distance education for students living in areas with no access to early childhood education training. The programs are based on the first year of our two-year programs. Humber College also offers correspondence programs in telecommunications and a program in "employee benefits".

*Further information*
Continuous Learning
Humber College
Box 1900
Rexdale, Ontario
M9W 5L7

**Northern College**
The Kapuskasing campus offers a correspondence program leading to a two-year Business Administration Diploma. Twenty courses are required to complete the diploma program. Students may select courses from a General Business Administration program or may concentrate in the Travel and Tourism option. Each course consists of a study guide and a textbook. Some courses have videotapes. Two courses are available in French.

Tuition fee is $75 per course, plus the cost of a study guide and textbook. There is a refundable deposit for videotapes.

A three-year engineering technician diploma program is available in three fields: civil, electrical, and mechanical. Each of these programs consists of six parts. After each part, there is a final invigilated three-and-one-half-hour closed-book examination.

*Further information*
Centre for Independent Learning and Correspondence Courses
Kapuskasing Campus
Northern College of Applied Arts and Technology
3 Aurora Avenue Kapuskasing, Ontario P5N 1J2
Telephone (705) 335-8504

**Seneca College**
The Continuing Education Division offers systems maintenance – building environmental systems through correspondence study. This course is designed specifically for persons employed in the servicing of large office and/or apartment building complexes. Examples of subjects covered are pipe systems and water treatment.

*Further information*
Registrar – Continuing Education Division
1750 Finch Avenue East
Willowdale, Ontario M2J 2X5
Telephone (416) 493-4144

**St. Lawrence College Saint-Laurent**
St. Lawrence College Saint-Laurent at Kingston offers a 15-week correspondence course in family home day care.

*Further information*
Human Studies Department
St. Lawrence College Saint-Laurent
King and Portsmouth Ave.
Kingston, Ontario K7L 5A6
Telephone (613) 544-5400

St. Lawrence College Saint-Laurent at Brockville offers a diploma program in registered nurse – occupational health nursing. This program consists of 7 courses available through correspondence plus a field work assignment that can be completed at the student's location.

*Further information*
*St. Lawrence College Saint-Laurent*
*2288 Parkedale*
*Brockville, Ontario K6V 5X3*
*Telephone (613) 345-0660*

**• Private Vocational Schools**
There are a number of private vocational schools in Ontario, registered under the Private Vocational Schools Act, which offer correspondence training. These schools aim to provide practical training in the skills employers demand.

Private correspondence schools are helping to fill the need for vocational training for those unable to attend regular classes.

The activities of these institutions in terms of course offerings, length of training, and fee per course vary a great deal ($100 to $5 000) depending on the nature of the courses offered and the resources available to each private school. Some of the courses consist of a combination of residence and correspondence instruction, the residence portion usually comprising the latter part of the course.

The section *Registered Private Vocational Schools* in this publication contains a directory list of all the private vocational schools registered in Ontario. Section 2 lists programs available by correspondence. The code numbers accompanying each course listing refer to the schools in the directory list which offer that course.

**• Ministry of Education – Correspondence Education**
Correspondence Education provides an opportunity for Ontario residents to complete a secondary education by mail. A program from Grade 1 to Grade 13 is offered in both English and French.

Applicants may enrol at any time, proceed at their own pace, and receive an OSSGD or OSSHGD whenever requirements are met. All courses are free, although students must purchase Grade 13 textbooks.

Counselling is available to advise applicants and enrolled students about appropriate programs. Also, a telephone tutorial service assists those who encounter difficulties in their courses.

Elementary school courses are designed for children who are unable to attend an Ontario school or are temporarily living outside Canada. Over 85% of enrolled students are in secondary courses. They are largely mature adults whose aims are to earn a diploma, gain employment skills, complete admission requirements for a postsecondary institution, and satisfy personal goals. Some adults enrol while they are temporarily absent from the province, and some secondary school students supplement their day school programs through this service.

All courses are prepared from the same Ministry of Education guidelines as those used by Ontario secondary schools. Thus, certificates and diplomas are equal in value to those issued by schools. Over 80 000 Ontario residents study each year through these Ministry of Education courses.

*Further information*
Correspondence Education
909 Yonge Street
Toronto, Ontario
M4W 3G2
(416) 965-2657 (Toronto)
1-800-268-7065 (toll free)

**• Accountancy Courses**
The Certified General Accountants Association of Ontario and the Society of Management Accountants of Ontario offer correspondence courses that, upon graduation, lead to the designation Certified General Accountant (CGA) and Certified Management Accountant (CMA) respectively.

Through the CGA Association, a course of study is offered in such management studies as financial management, information systems, and controllership. The program of study is primarily by correspondence, supplemented by lectures in different locations throughout the province.

The course is offered nationally, and all subjects are identical in each province.

For further information on the CGA program of study, on admission requirements and on the organization, please refer to the section on the CGA Association in this publication.

The Society of Management Accountants of Ontario offers a professional education course designed specifically for the field of management accounting in business and government. Available by correspondence or evening lecture, this five-level study program leads to the designation CMA. The CMA course teaches the concepts and techniques of management accounting, law, statistics, and other relevant areas of financial management.

For further information on the society, the admission requirements and on the courses required, please refer to the section on the Society of Management Accountants of Ontario in this publication.

The Institute of Chartered Accountants of Ontario offers correspondence courses in taxation and law to students registered with the institute. Information on these courses, and how they fit into the overall CA qualification requirements, can be obtained from the institute.

In addition, the University of Waterloo offers correspondence courses in introductory financial accounting, advanced financial accounting, auditing, computer science, quantitative methods, economics, law, and management. Please contact the university for more information about these courses.

For further information on the institute and the qualification requirements for becoming a chartered accountant, please refer to the section on the Institute of Chartered Accountants of Ontario in this publication.

**• Open College/Ryerson**
Open College, the educational service of radio station CJRT FM, 91.1, offers students convenient alternatives to classroom study. This fall and winter, students can earn degree credits at home by listening to radio or cassette tapes.

A tutor is assigned to help students with the course material. During each course there are two weekend study sessions conducted at Ryerson. These sessions give students a chance to talk with instructors, tutors, and other students. Course assignments are mailed in to Open College, and mid-term and final examinations are written at Ryerson.

*Further Information*
Open College/Ryerson
297 Victoria St.
Toronto, Ontario M5B 1W1
Telephone (416) 595-0485

# Facilities for Students with Special Needs

**Ontario Colleges and Universities**

Public postsecondary institutions in Ontario have made efforts to accommodate the requirements of students with special needs. Both universities and colleges have increased the accessibility of on-campus postsecondary education.

In recent years many new buildings have been designed to be accessible to the physically disabled and, where possible, older buildings are being modified with ramps, accessible washrooms, and other special facilities.

Some institutions have more complete facilities than others, but all are willing to make arrangements, where possible, for individuals with special needs. Residence facilities can be arranged at most universities and at a few of the colleges, and specially designated parking areas are available at most institutions. In general, recreational facilities that can accommodate special needs students are limited. The availability of special study aids and resource materials varies from school to school, and students are advised to carefully consider what special study facilities are available when selecting the institution they wish to attend.

**Print-Handicapped Students Attending Postsecondary Institutions**
The Resource Services Library of the W. Ross MacDonald School in Brantford, Ontario, is the co-ordinating agency for providing tape and braille materials to Ontario print-handicapped students who are registered in courses at publicly supported postsecondary institutions or approved private vocational school programs. Every postsecondary institution has an appointed contact person, who will assist print-handicapped students and help them secure the required texts and other material. For further information, contact the Resource Services Library, W. Ross MacDonald School, by telephoning (519) 759-0730.

**•Universities**

**Brock University**
Brock University has taken steps to ensure that most of the campus is accessible; wheelchair ramps, elevators, and modified washroom facilities are available. Special permits allow priority parking, and a transit system for those with special needs is provided by the City of St. Catharines.

The university library is equipped with braille and cassette dictionaries, braillers and paper, a braille typewriter, a talking calculator and book machine, reel-to-reel and cassette recorders, two visualteks, and various magnifiers. Study carrels are available to all special needs students.

A hydraulic lifting wheelchair is provided in both the library and the science complex; chemistry labs and a computer terminal have been modified for the physically disabled. The pool in the physical education centre is equipped with a hydraulic floor to provide easier access.

For more information and a copy of the brochure *Disabled Student Services at Brock University,* please contact the Co-ordinator of Library Services for the Disabled at the university, or contact

The Assistant Registrar – Admissions
Brock University
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

**Carleton University**

*Mobility Impaired*
The campus of Carleton University is one of the best equipped in Canada for accommodating physically disabled persons. The buildings are close to each other and are connected by tunnels. All of the main buildings have elevators and are ramped for outside entrance and egress. Many sidewalks have been made accessible by recent curb-cut renovations. An accessible washroom exists at the tunnel entrance to Paterson Hall. Keys for student use during the academic year can be obtained from the co-ordinator.

*Residence Program for the Severely Disabled*
A limited number of special needs students are admitted into the Carleton Residence Program For the Severely Disabled each year. Admission to the program is based upon the need for attendant care service, the availability of space in an accessible room, whether or not the applicant has housing alternatives within the Ottawa area, and the date of application. (For further information regarding application to the program, contact the Co-ordinator.)

*Visually Impaired*
A study room in the library has been designated for special needs students' use. Room 304 in the MacOdrum Library is a quiet study area and has equipment for the visually impaired. Enabling equipment includes two visualtek large-print readers, a brailler, and a computer terminal with printer and DECTALK synethesized voice components. Keys for the study area and/or for the tunnel elevator can be obtained from the Stack Supervisor at 564-7570. Inquiries about keys may also be made at the Book Return, located at the second-floor entrance to the library.

*Hearing Impaired*
Personal FM systems and an auditorium FM sound system are now available for loan to hearing-impaired students at Carleton. Arrangement for borrowing this equipment is made through the co-ordinator, and a refundable $10 deposit is required. Students may pick up and return equipment to the Instructional Aids Department in Southam Hall so that it can be available for both day and evening use.

The co-ordinator also acts as liaison for the Educational Support Services program. The program provides interpreter service, professional note-takers, and FM Systems for eligible part-time students.

*Learning Disabled Students*
It is the intention of faculty and staff at Carleton University to accommodate the reasonable special needs of the learning disabled student. It is recommended that the student have a psychological assessment conducted in order that university staff may best and most effectively provide services that address each individual's particular learning disability.

Students seeking help with their particular learning disability and/or information with regard to Carleton University's policy for the learning disabled may initiate inquiries with the co-ordinator.

*Accessibility and Resource Guide*
A new accessibility guide for students with special needs is prepared for distribution each calendar year. For further information contact the co-ordinator.

*NEADS*
The National Educational Association of Disabled Students' administrative office is now located at Carleton University. Inquiries regarding this new national association can be made to Frank Smith, Room 127D, Unicentre, (613) 233-5963, or to the
Co-ordinator for the Disabled
Room 500, Unicentre
Carleton University
Ottawa, Ontario K1S 5B6
Telephone (613) 564-3657 (or Health Services, 564-2755

**University of Guelph**
Special needs students attending the University of Guelph have access to door-to-door van services provided by the city of Guelph. Guelph's library is fully accessible with turnstiles that permit the passage of wheelchairs. Full-size graduate study carrels equipped with lockers are available for those with special needs, and taped books can be obtained. Newer buildings and some residences are easily accessible, while older buildings have been modified with special grants from the Ministry of Colleges and Universities. The Counselling and Student Resource Centre at Guelph helps students adjust to the emotional and social demands of university life. For more information contact
Counselling and Student Resource Centre
University Centre, Level 3
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120 ext. 3244

**Lakehead University**
Lakehead has made a major commitment to providing facilities and services to students with special needs. Students who are sight or hearing impaired or who have other physical disabilities are encouraged to contact the Director of Student Services for information and assistance. All newer buildings at Lakehead are accessible, and older buildings are being modified with ramps and curb cuts. Residence buildings, rooms, washrooms, and athletic facilities such as the gym, weight room, pool, and change rooms are wheelchair accessible. The City of Thunder Bay provides Handi-vans for use by special needs students. Permits for special parking areas are also available. For more information contact
Director of Student Services
Lakehead University
Thunder Bay, Ontario P7B 5E1
Telephone (807) 343-8149

**Laurentian University**
Laurentian has made special efforts to increase accessibility for students with special needs. Special parking areas are available. At the Physical Education Centre, the olympic pool has a hoyer-lift, and the showers and pool have support bars. The library provides necessary reading material, obtaining it from existing sources (the Ross Macdonald School in Brantford, commercial publishers, and other universities) and taping books and articles. Library staff members can assist students by reading parts of books, preparing bibliographies, etc.

Students having difficulties adjusting to the Laurentian environment are encouraged to contact the Co-ordinator of Student Services, (705) 675-1151 ext. 1030.

Nipissing University College's College Education Centre in North Bay is equipped with ramps, elevators, and washrooms accessible to physically disabled students. Special parking areas are also available. However, residences are not wheelchair accessible, and special equipment and services are limited. For more information contact
Information Officer
Nippissing University College
P.O. Box 5002
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450 ext. 2327

### McMaster University

The university has made a substantial commitment of resources and financial support to improve the facilities to ensure the accessibility of the campus and the academic programs. Provisions for the physically disabled include the installation and upgrading of curb cuts, the installation of ramps leading into a number of the buildings, the provision of ramps within buildings, tactile elevator lettering in major teaching buildings and libraries, a vertical chair lift in the Burke Science Building, the expansion of the number of accessible washrooms in teaching buildings, the acquisition of learning aids through the library facilities, the keeping of guide dogs for the sight- or hearing-impaired in the residence, a work room for blind students (readers on request from the volunteer bureau), and special stickers for all parking zones. The library will also make arrangements for taped textbooks. Personal course timetables are prepared to suit the student. Special examination arrangements can be made. Each faculty has a person responsible for making any special academic arrangements. For more information contact
Systems Development and Calendar Officer
Room 108B, Gilmour Hall
McMaster University
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4339

### Ontario College of Art

OCA has access via a lift for physically disabled students into its 100 McCaul Street building and an accessible washroom on the main floor. The campus at 149 College Street has a ramp and elevators throughout. Although the college does not offer any special programs for disabled students, it does offer a program through Industrial Design for students who wish to design educational aids and utensils for mentally and physically disabled people. In addition, OCA is committed to accommodating visually impaired and disabled students whenever possible within its existing academic programs. Individuals may make inquiries through the Office of the Senior Adviser. For more information, contact the
Office of the Registrar
Ontario College of Art
100 McCaul Street
Toronto M5T 1W1
(416) 977-5311

### University of Ottawa

A Resource Centre for Handicapped Students is currently managed by Student Services. The centre attends to students with special needs. Ramps for wheelchairs are in most of the newer buildings. The main library has a large collection of tapes for blind students, as well as a brailler and reading machine.

For more information contact
Assistant to the Director-General of
Student Services
University of Ottawa
University Centre
85 Hastey
Ottawa, Ontario K1N 6N5
Telephone (613) 564-5053

### Queen's University

Queen's tries to meet the requirements of special needs students on an individual basis. Such students are encouraged to contact the Co-ordinator of Services for Disabled Persons, who will discuss with students what their requirements are and what changes are necessary so that obstacles to their participation in programs of their choice can, if possible, be overcome.

Students with special needs are given priority in admission to residence. Both the men's and women's residences have rooms that are wheelchair accessible.

If a student who is wheelchair bound has classes in a building that is not accessible, the university will try to relocate the class or improve the existing access.

There is a small room in the library for students who have a visual disability and who rely on tapes and braille material. It is soundproof and equipped with a four-track tape recorder and brailler. Some braille reference books are available.

The university library maintains liaison with the audio programs at Trent University, the CNIB, etc. through the W. Ross Macdonald School. These programs tape reading material for sight-impaired postsecondary students. They also serve those with learning disabilities and others who cannot use print materials.

Arrangements can be made for students to have extra time to complete examinations and course work, and for examinations to be prepared in tape or braille form. An amanuensis will be provided for students who can not write or type final examinations. For further information contact
Gail Glode
Co-ordinator of Services to Disabled Persons
Victoria Hall
Queen's University
Kingston, Ontario K7L 3N6
Telephone (613) 545-2533

### Ryerson Polytechnical Institute

Most Ryerson buildings are accessible by wheelchair, and several provide special facilities that accomodate wheelchair users. The library also provides a number of extended services for students with special needs. Neill-Wycik College, a student co-op residence, is accessible by wheelchair and provides special arrangements for the disabled, depending on specific needs. Ryerson's main parking lot reserves parking spaces for the physically disabled.

The Toronto Transit Commission provides special transit service for handicapped individuals; several other van services also operate within the city.

Ryerson's Student Services Department will provide detailed information on services and facilities for special needs students. A complete list of transportation services in the City of Toronto is also available. Student Services representatives are available to help students become acquainted with the campus and assist them in completing the registration process. For further information contact
Director of Student Services
Ryerson Polytechnical Institute
350 Victoria St.
Toronto, Ontario M5B 2K3
Telephone (416) 979-5187

### University of Toronto

The university has recently made many improvements in the accessibility of buildings, programs, and services.

A Co-ordinator of Services to Disabled Persons can provide, upon request, liaison with academic and administrative departments and information and referral concerning facilities and services on- and off-campus.

Carrels in the Robarts Library are reserved for special needs students and/or volunteer readers. Magnifying devices and tape recorders are available at the three campuses. In addition there is a brailler and a typewriter on the St. George campus. A library resource person in the Robarts Library provides liaison between the various on-campus libraries and with the W. Ross Macdonald School, the provincial co-ordinating agency for the provision of printed materials in alternative formats (tape, large print, or braille). Other equipment available includes personal amplification devices for hearing-impaired persons and computer hardware and software for visually-impaired and learning-disabled students. The co-ordinator acts as liaison for the Educational Support Program, administered by the Canadian Hearing Society for hard-of-hearing and deaf part-time students.

The university has published *A Guide for Disabled Persons* and two brochures, *Hearing Impairments* and *Learning Disability*. The office produces a monthly newsletter. For more information contact
Co-ordinator of Services to Disabled Persons
Koffler Student Services Centre
214 College Street
University of Toronto
Toronto, Ontario M5S 1A1
Telephone (416) 978-8060 (also TDD)

### Trent University

Most academic and residental buildings at Trent have ramps and accessible washrooms. The university has an extensive library of audio-tapes that are part of the Ontario Audio Library Service. Several universities maintain liaison with the program to provide audio-tape services to their students. The special needs of students can usually be met, because of the student/teacher relationships possible at Trent. For more information contact
James English
Director of Student Services
Trent University
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1215

### University of Waterloo

Students with special needs attending the University of Waterloo have access to door-to-door van service called Project Lift, which is provided by the City of Waterloo. All buildings have at least one ramped entrance. Most buildings have accessible washrooms or are linked to a building that does. Student housing has wheelchair-accessible rooms. Students with special needs are given housing priority and may request an in-residence trial period to evaluate their living conditions. Both libraries are wheelchair-accessible and provide rooms where students may work with readers, tape information, or listen to tapes. A brailler and special micro-reader lenses are available.

A Centre for Sight Enhancement with up-to-date technical equipment, including a Kurzweill reading machine, has been established in the optometry clinic to aid visually disabled students.

The Co-ordinator of Services for Disabled Persons will help special needs students gain access to campus services and facilities. For more information contact
Co-ordinator of Services for Disabled Persons
Florence Tomlison
Needles Hall
University of Waterloo
Waterloo, Ontario N2L 3G1
Telephone (519) 885-1211 ext. 2993
TTY/CTDO (519) 888-4044 (non-voice)

### University of Western Ontario

With the increasing diversity of students attending the University of Western Ontario, the university continues to make special efforts to make the campus as accessible as possible. In terms of physical accessibility, most sidewalks have curb cuts, special parking provisions are made for drivers using wheelchairs, most buildings have accessible entrances and elevators, and the city Paratransit system can be used to travel to and from the campus. There are three accessible co-ed residences and two residence apartments equipped to accommodate physically disabled students.

Students can request the use of note-takers, tutors, extended time to write exams, and alternative forms of exams. Western operates a computer braille facility that gives visually impaired students access to computing facilities and allows them to prepare essays and write exams via a braille or large-print terminal. Study rooms are available in the main library for print-handicapped students. Word processing equipment is also available for students with special needs.

Some campus pay phones have been modified for the benefit of hearing-impaired students. There are two TDDs on campus for enhanced communication with the hearing-impaired. Additional services may be made available for these students upon request.

Counselling and Career Development Services offers counselling support for students with special needs. This department also houses a resource centre, which deals with most aspects of disabilities. The university has an ombudsman who acts on behalf of students with special needs, and there are student support groups on campus. For further information contact
Counsellor for Disabled Students
Room 32, University Community Centre
The University of Western Ontario
London, Ontario N6A 3K7
Telephone (519) 661-2147 (voice and TDD)

### Wilfrid Laurier University

The Central Teaching Building, the library, the athletic complex, the seminary, and the arts, student union, student services, and Frank C. Peters buildings are accessible. Classroom and examination assistance is provided, as is reserved parking. Requests for special assistance of any kind should be directed to the
Office of the Dean of Students
Wilfrid Laurier University
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2319

### University of Windsor

All buildings on the university main campus are accessible to students in wheelchairs. The Faculty of Education building is currently inaccessible because it has no elevator, but future university plans call for the transfer of education classes to the main campus.

Two residence halls (Macdonald for undergraduate men and Laurier for undergraduate women) have rooms modified for wheelchair access.

Visually impaired students may qualify for a tuition waiver under an agreement between the university and the Canadian National Institute for the Blind. Visually impaired students are also encouraged to use audio cassettes, which can be obtained through the Leddy Library, and to take advantage of volunteer reading services. Inquiries about all such arrangements should be directed to the Office of Student Affairs.

Students with special needs are urged to contact Student Affairs for individual academic and career counselling, and campus tours may be arranged at that time. For more information on the above please contact
Mrs. Carol Saso
Assistant Dean of Students
University of Windsor
Windsor, Ontario N9B 3P4
(519) 253-4232 ext. 3288

### York University

Most of York University is wheelchair accessible. Ramps, curb cuts, elevators, electronic doors, special washrooms, and special parking spots are provided in a central location. Additional assistance can be sought from the Centre for Handicapped Students. Services include pre-university advising; academic, mobility, and personal counselling; mobility tours; orientations; a volunteer service; and arrangements for alternate examinations with assistance, if necessary. All students have access to a broad range of general services as well, some of which are referrals to a variety of professionals, essay writing and study skills, career counselling, library tours, a visualtek, a four-track cassette player, and an Apple IIe computer and printer. Students with special needs are given priority in both undergraduate residence and graduate apartments on campus. Students are responsible for arranging their own attendant care and obtaining their own special parking permits. For further information please contact
The Centre for Handicapped Students
Room 101E, Behavioural Sciences Bldg.
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5140

The Learning Disabilities Program, a pilot project in its first year, is intended to provide a range of specialized services to students with learning disabilities. When it is fully operational, the program may provide or co-ordinate: psycho-educational diagnostic assessments; advising on courses and programs for learning-disabled students; remedial and/or tutorial assistance; life-skills counselling; career counselling; individual, group, and/or family counselling; advocacy regarding reasonable alternative means of evaluation; and education of staff and faculty regarding learning disabilities. There may be a fee charged for some of these services. For more information contact
Learning Disabilities Program
Dr. Marc Wilchesky, Co-ordinator
Room 112, Behavioural Sciences Building
York University
4700 Keele St.
North York, Ontario M3J 1P3
Telephone (416) 736-5140

## • Colleges

### Algonquin College

Algonquin College employs a Special Needs Co-ordinator. Her role is to help determine how the college might meet individual special needs. It is recommended that prospective students contact the Office of the Co-ordinator as early as possible concerning their intention to enter Algonquin. Academic accommodation can then be discussed and organized before classes begin.

Facilities for physically disabled students include reserved parking spaces, ramps, elevators, modified lockers, and washrooms. Most facilities are accessible. Improvements are continually being made.

Health care services are available for all students, and on some campuses registered nursing personnel offer assistance with routine activities such as personal hygiene. A rest area is also provided in the health unit.

Peer tutoring services operating out of the Counselling Department are offered to all students, and notetakers and readers are recruited when a need is identified.

Equipment and technical aids include student study carrels and work stations adapted for wheelchair access, an Apollo reading machine for the visually impaired student, an audio transcription service for print-handicapped students, access to a self-correcting typewriter on request, an adjustable-speed tape recorder, one telephone hook-up to the computer so that students with special needs can dial in and work at home, one Cyber time-sharing terminal in the computer-assisted learning (CAL) lab, a photocopier that makes enlargements, a TDD phone, and a hoyer lift.

Algonquin College offers a special program for the deaf, Headstart for the Hearing Impaired. The Community Adjustment Program operating from the School of Lanark County is another program designed to assist people in developing and maintaining independent living skills. For more information contact
Louise Legault
Special Needs Co-ordinator
Algonquin College
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7606

### Cambrian College

The main campus, located in Sudbury, is completely accessible to wheelchair students. Parking is available close to the main entrance for physically disabled students who drive themselves to and from the college. For others a drop-off and pick-up spot is located next to the main door. Arrangements can be made for the use of an elevator key. Two of the three elevators are keyed. A room is available for overnight charging of wheelchair batteries. This room is also suitable for storing books and outdoor clothing. Telephones for use by wheelchair students are located throughout the building. There are also adjustable telephones for the hearing impaired.

A physician is on campus four half-days a week. In addition to providing normal health-care services, the physician is prepared to take care of out-of-town students who need ongoing medical treatment. The placement office will assist students with special needs in their search for employment. There is an Association for Disabled Students (ADS), which provides opportunities for students to meet and share concerns, plan activities and projects, and liaise with the rest of the college on matters pertaining to students with special needs. Membership in ADS is $2 per year and is open to both disabled and non-disabled students. Anyone wishing to become a member should contact the Students Administrative Council, 566-8101 ext. 226.

Physical demands analyses have been done for each college program and are readily available to individuals and agencies through the OACIS computer program in the counselling office. A city-operated handi-transit system provides transportation to and from the campus. The college has established a special needs centre for students and permits the use of seeing-eye dogs for blind students. Special programs are provided for severely disabled adults who wish to pursue future employment and/or postsecondary education. In addition to seeking the general assistance available throughout the college, students may seek specific assistance from their department chairman, counselling services, or the Association for Disabled Students.

The Support Programs Department offers programs to meet the academic requirements of special needs students; the Health Services Department tends to their special medical needs. The Counselling Centre and the Learning Disabilities Co-ordinator also provide vital support systems/services. A physical-needs assessment inventory of individual courses and an inventory of aids is also available to students. For more information contact
Manager of Admissions
Cambrian College
1400 Barrydowne Road
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101

**Canadore College**
Canadore College's College Education Centre in North Bay is equipped with an elevator and modified washrooms accessible to physically disabled students. Some telephones are at wheelchair level. Designated parking facilities and electronic doors assist entry to the main campus. Some residences are wheelchair accessible. Career, academic, and personal counselling and assistance are available for special needs students. For more information contact
Special Needs Co-ordinator,
Student Services
Canadore College
P.O. Box 5001
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 126
Toll free 1-800-461-9513

**Centennial College**
At Centennial College counsellors at each campus provide career, academic, and personal counselling for students with special needs. All the college buildings are accessible and have at least one accessible washroom per floor. As well, there are specially designated parking spaces for the disabled. Individual arrangements can be made for special services and equipment and for keys for the elevators. For more information contact
Director of Counselling Services
Centennial College
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3241 ext. 273

**Conestoga College**
Conestoga College is a multi-campus institution serving a four-county area. Applicants are advised to contact the campus where the program being applied for is offered, because at this time the accessibility to our facilities and the level of existing support services varies according to the campus location. The Doon campus of Conestoga College offers a number of facilities for special needs students, including reserved parking spaces, ramps that make the college fully accessible, special washrooms, and service elevators that provide access to the cafeteria and to classrooms on the third and fourth floors. The facilities of the Cambridge, Guelph, and Waterloo campuses are accessible to special needs students. The athletic complex is designed to accommodate special needs participants and spectators. For more information contact the special needs counsellor at any of the five campus locations, or
Director, Central Student Services
Conestoga College
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 653-2511 ext. 258/291

**Confederation College**
Facilities for students with special needs at Confederation College are many and include reserved parking spaces, ramps, special washrooms, and service elevators for access to the cafeteria and the above-ground floors. Confederation College's residence and fitness centre are designed to accommodate the physically disabled. Special services and equipment may be arranged according to individual requests. For more information contact
Associate Registrar
Confederation College
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
Northwestern Ontario residents can call toll free 1-800-465-6961 or 465-6962

**Durham College**
Facilities for students with special needs include reserved parking, ramps, stairlifts, elevators, special washrooms, and access to the cafeteria and above-ground floors. For more information contact
Manager, Student Services
Durham College
Simcoe St. N.
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210 ext. 248

**Fanshawe College**
Counsellors at Fanshawe College offer brief orientation programs to all special needs students at the college. Most of the college buildings are accessible. At the main campus special parking, washroom, and elevator arrangements can be made on request. An information brochure is available. For more information contact
Manager, Student Services
Fanshawe College
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4282

**George Brown College**
Some buildings at George Brown are equipped with elevators and special washrooms for students with special needs. The college offers a unique program for the deaf, Headstart for the Hearing Impaired, which includes pre-registration survival lectures, special guidance into regular classes, and tutoring, counselling, and interpretive services. As well, sports facilities for the hearing impaired are available. Special parking arrangements can be made. For more information contact
Student Services
George Brown College
P.O. Box 1015, Station B
Toronto, Ontario M5T 2T9
Telephone (416) 967-1212 ext. 2321

**Georgian College**
Georgian College provides most special equipment and services upon individual request. Four buildings have ground-level accessibility, and the College Services Building has an elevator and special washroom facilities. For more information contact
Director, Student and Community Services
Georgian College
One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951

**Humber College**
Humber College's North Campus is equipped with ramps, reserved parking spaces, a "drop-off" location, modified washrooms, and an elevator, making it accessible to wheelchair students. Lakeshore is accessible and is equipped with an elevator to the second floor, and modified washrooms are available. Queensway, Osler, and Keelesdale all have entrance ramps and converted washrooms, and Keelesdale has a reserved parking space. At the Lakeshore Campus, a front-end assessment process has been established for applicants who self-identify disabilities. This includes an analysis of a program's physical demands and of the functional capabilities of individuals. Following this analysis, the possibilities of a match between student and program are discussed by an admissions committee. At this stage, the aids and devices that could supplement the student's functional capabilities are also investigated as part of the admissions process. For more information contact
Associate Registrar
Humber College
3999 Lakeshore Blvd. West
Toronto, Ontario M8V 1K8
Telephone (416) 252-5571

**Lambton College**
The main campus at Lambton College is equipped with ramps, elevators, automatic doors, special telephones and drinking fountains, and modified washrooms. Reserved parking spaces and an on-campus residence that can accommodate students with special needs are also available. In addition, Lambton has developed special learning resources material in certain fields. College staff help students who require tapes and readers to locate various sources of information. For more information contact
Registrar
Lambton College
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751 ext. 295

**Loyalist College**
Most of Loyalist College is accessible to special needs students. The main building is equipped with an elevator. Special parking areas are readily available, and special services and equipment are provided on an individual program basis. The card catalogue system in the Resource Centre has been modified, facilitating easy access. No residence facilities are available. For more information contact
Counselling Office
Loyalist College
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 962-9501 ext. 204

**Mohawk College**
Most of the buildings at Mohawk College are accessible and equipped with ramps, a large elevator, and special washrooms. Residence facilities

are not available, but housing assistance is provided by the College Housing Office. Priority in parking is given to special needs students. Individual arrangements for special services and equipment can be made by contacting the Counselling Centre at (416) 575-2104 or Health Services at (416) 575-2084. For more information contact

Co-ordinator, Disabled Student Services
Mohawk College
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2292

### Niagara College

The Welland Campus of Niagara College offers a number of facilities to disabled students, such as reserved parking spaces, ramps, special washrooms, and service elevators that provide access to third- and fourth-floor classrooms. Arrangements for special services and equipment can be made on an individual basis. Priority in parking is given to special needs students. For more information contact

Counselling Services
Niagara College
Woodlawn Rd., P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone (416) 735-2211 ext. 780

### Northern College

Students with special needs are frequently accommodated at Northern College on an individual basis. Instructors, in co-operation with the chairperson, attempt to revise or alter teaching/testing methods, etc., according to the circumstances of the student.

Mr. R.C. Mack, Chairman of Community Services (telephone (705) 235-3211), has recently been designated as the contact person regarding students with special needs and future program needs. He has become involved with students experiencing difficulties by providing direction and support and identifying services that may be employed. Mr. Mack also works in close collaboration with the staff of Student Services.

In order that special needs may be addressed and accommodated, students are encouraged to identify the exceptionality on the application form. The prime responsibility for the identification of a need lies with the student.

Northern College's Porcupine (Timmins) Campus has ramps and is equipped with accessible washrooms. Readers can be provided for the visually impaired, in co-operation with the CNIB, and the library is fully accessible to wheelchairs. Residence facilities are not available, but the college works with sponsoring agencies to provide special equipment and services. Parking arrangments can be made on request. The Kirkland Lake Campus can accommodate disabled students (telephone (705) 567-9291), but the Haileybury Campus and the James Bay Education Centre have no special facilities. For more information contact

Dean of Student Services
Northern College
Highway 101, P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211 ext. 213

### St. Clair College

The college is working towards accommodating students with special needs. Individuals with special needs are encouraged to contact the chairperson of the Special Needs Committee to discuss the physical and academic demands of programs and the adaptations that can be made to assist special needs students. Some modifications in testing, teaching, and learning methods will be undertaken if appropriate and feasible in consultation with the college and the student. The college is equipped with ramps, elevators, accessible washrooms, cassette recorders on loan from the Media Centre, Health Services, and a Counselling Centre. Students with physical disabilities may apply at the Parking Office (Room 48), telephone (519) 966-1656, Ext. 538) for special parking locations after supplying a medical certificate. Applications will be assessed on an individual needs basis.

Speech and hearing impaired persons can contact the college by telephone. Anyone who has a teletype (TTY) or telephone device for the deaf (TDD) in their home or business can call (519) 966-0053 from 8:30 a.m. to 10:00 p.m.

The physically disabled and those unable to board city buses may take advantage of Handi-Transit Buslines. The service must be reserved three to four days ahead (and up to two weeks in advance) for curb-to-curb transportation at the rate of $1.25 each way. For further information contact Handi-Transit Buslines, 556 Pitt Street West, Windsor, Ontario N9A 5M2 (phone (519) 256-0283).

For more information contact

Mrs. Virginia Macchiavello
Chairperosn, Special Needs Committee
St. Clair College
Telephone (519) 966-1656 ext. 497

### St. Lawrence College Saint-Laurent

St. Lawrence College Saint-Laurent is working toward accommodating students with special needs. They are encouraged to contact Student and Campus Services at the Brockville, Cornwall, or Kingston campuses for information and assistance.

The student will need to know the physical demands of a chosen program, and what adaptations can be made for visual, hearing, or mobility impairment, learning disability, developmental handicap, or other special needs.

If the student needs taped material, he/she should inform the staff when receiving confirmation of acceptance, so that the materials will be ready for the start of classes.

The student is expected to complete the requirements of a chosen program. The final responsibility for successful adaptation belongs to the student. Some modifications in testing and teaching/learning methods will be undertaken, if feasible and appropriate, after consultation with college staff.

All campuses are equipped to provide basic services for the special needs student, including washrooms, telephones, ramps, automatic doors for wheelchair and mobility impaired individuals, movable desks, and reserved parking areas.

The Kingston Learning Resource Centre has some large-print books. Brockville has a visualtek located in the library, a visualtek DP-11 in the computer lab, and a portable visual ear. Cassette recorders and study carrels are available on the three campuses. All campuses offer sign language courses to interested students.

Before students start their selected program, Brockville campus offers a Headstart Program for the student with special needs. For more information contact

Exceptional Student Project
St. Lawrence College Saint-Laurent
2288 Parkedale
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

### Sault College

Sault College in Sault Ste. Marie features a ramp entrance, modified washrooms, and elevator keys for those who have difficulty negotiating stairs. Housing facilities are not available. Special parking facilities are available to provide easy access to campus buildings. For more information contact

Registrar's Office
Sault College
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 949-2050 ext. 215

### Seneca College

At Seneca College, special arrangements can usually be made for special needs students to take courses in accessible rooms. However, it is essential that the student meet with college officials before classes begin so that adaptations can be made.

Facilities for the special needs student at the Newham Campus include an elevator, reserved parking spaces, ramps, lowered telephones, and modified student lockers and washrooms.

Garriock Hall at the King Campus is accessible by ramps and has reserved parking spaces, a "drop off" location, and special washroom facilities.

The Leslie and Sheppard campuses are accessible with ramps and have reserved parking and some modified washroom facilities.

Special educational materials and equipment for the visually impaired student can be arranged through the Library Resource Centre. For more information contact

Registrar
Seneca College
1750 Finch Avenue East
North York, Ontario M2J 2X5
Telephone (416) 491-5050

### Sheridan College

Sheridan's emphasis on helping students succeed includes helping those with special needs related to a physical or learning disability. Most buildings at the college are equipped with ramps, elevators, accessible washrooms, and reserved parking spaces. Sheridan's Health Services can advise and/or refer students with special physical needs – contact ext. 254. Counselling, testing, and support programs for special learning needs are available through Counselling and Career Services – contact ext. 819. Students with special needs are encouraged to contact the college well in advance of registration. Resources are limited and will be allocated on a first-come, first-served basis. Arrangements for special services may be made on an individual basis. For more information contact Counselling and Career Services (special learning needs) (416) 849-2819, Health Services (special physical needs) (416) 849-2837, or

Registrar
Sheridan College
1430 Trafalgar Rd.
Oakville, Ontario L6H 2L1
Telephone (416) 849-2800

### Sir Sandford Fleming

The Brealey and Frost facilities of Sir Sandford Fleming College are accessible with ramps, elevators, and special washroom facilities. The McDonnel facility, an older building, provides washroom facilities and limited ramp access on main floors. The Continuing Education Program at the McDonnel and Frost campuses offers courses in sign language. For more information contact

**Admissions Office**
**Sir Sandford Fleming**
**School of Natural Resources**
**Frost Campus**
**Box 8000**
**Lindsay, Ontario K9V 5E6**
**Telephone (705) 324-9144**
**Toll free 1-800-461-0340**

**Admissions Office**
Sir Sandford Fleming College
Sutherland Campus
526 McDonnel St.
Peterborough, Ontario K9J 7B1
Telephone (705) 743-5620

# Native Studies

This section concentrates on postsecondary courses that may be of particular interest to Native people and to non-Native people who wish to improve their appreciation of Native society and cultures. For Native students, this section also serves as a guide to special opportunities for completing or complementing postsecondary education.

The courses of study described here are offered by Ontario colleges of applied arts and technology and Ontario universities and include programs developed to meet specific needs of Native people. Certain adult-training and apprenticeship programs that Native people have found particularly useful for improving their employment prospects are also outlined in this section.

The *Native Studies Programs* section details practical training that can be valuable for those who want employment in community, social, and correctional services, or in Native and band council associations and businesses dealing with or within Native communities.

## Special University Programs

**• Certificate Program in Journalism for Native People**
*University of Western Ontario*
This is a three-term, twelve-month program that begins in May and covers a full calendar year.

Applicants for admission to the certificate program in journalism for Canadian Native people must meet the requirements of the University of Western Ontario. Applicants should note in particular the admission regulations governing mature students. Prospective students should have at least Grade 10 or equivalent, some experience in journalism, a commitment to working in the field of communications, and three letters of recommendation. Students are expected to be competent in English and may be required to furnish proof of their proficiency.

The deadline for completed applications is March 13.

**• Law**
*University of Ottawa*
*Queen's University*
*University of Toronto*
*University of Western Ontario*
*University of Windsor*
*York University*
All Ontario university law schools encourage applications from Native people in order to expand meaningful legal representation on their own behalf.

In order to ensure a reasonable chance of academic success, the law schools fully endorse the special pre-law summer orientation program for Native students at the University of Saskatchewan. Those who have not completed this program but show marked potential for advancement may be accepted.

Qualified status Indian students are eligible to receive the full range of financial support benefits provided by the federal Department of Indian and Northern Affairs, for both the pre-law and the law school programs. Similar assistance is provided for Métis and non-status Indian students by the federal Department of Justice.

**• Native Management and Economic Development**
*Trent University*
This program aims to educate managers in the Native community through training in management skills, research, and demonstration projects. It is a co-operative effort of the Department of Native Studies and the Administrative and Policy Studies Program, leading to a two-year diploma, or a Bachelor of Administrative Studies with an emphasis in Native Management and Economic Development, or an ordinary or honours Bachelor of Arts in Native Studies with an emphasis in Native Management and Economic Development.

**• Native Studies Programs**

*Laurentian University*
Laurentian University offers a general Bachelor of Arts program in Native studies through the Department of Native Studies of the University of Sudbury, which is federated with Laurentian.

The program is intended to acquaint students as fully as possible with the situation of Native people, especially those of Canada. To this end, studies range from pre-Columbian time, through the arrival of the Europeans to the present-day renaissance, and cover education, legal rights, language, the application of ancient insights to modern sociological and ecological problems, and twentieth-century aspirations.

The aim of the program is to bring the students into direct contact with the area being studied. Artifacts, films, tapes, and other audio-visual resources are used, oral literature is studied, and field trips are arranged. Representatives of the Native population are invited to take part in the program.

*University of Toronto, Erindale Campus*
Erindale Campus offers a major (three-year) program that examines the cultures of the past and present as well as the history and theoretical framework of the interaction of Native and colonizing peoples. The program is interdisciplinary, combining the courses and approaches of anthropology, history, sociology, and geography. It complements programs with a focus on North American studies, ethnic/racial history, and environmental studies. Students may pursue special interests through an independent study course.

*Trent University*
Trent University offers the following Native studies courses:
Native societies of Canada
Introduction to Native studies
Politics and Native peoples
Iroquois culture and traditions
The Algonkian identity
Native identity development
History of the Indians of Canada
Social services and the Native people
History and politics of Metis & non-status Indians
Native community development
Urbanization and the Native peoples
Education and the Native peoples
Law and the Canadian Indian
Community service methodology
North American Indian metaphysics
Native art of Canada
Oral Mohawk
Oral Ojibway
Advanced Mohawk language and culture
Native peoples in literature
Advanced oral Ojibway
Research methodology

**•Social Work**
*Carleton University*
The School of Social Work at Carleton University has a special program to recruit status and non-status Native students into the Master of Social Work program. The Native program does not involve a separate academic program of study but is an attempt to recruit Native students at the graduate level. Admission is open to Native students from all over Canada. Limited funds are available to support non-status Native students. The first students were admitted to the program in 1975. Students are encouraged to contact the School of Social Work for further information.

**•Sociology and Anthropology**
*Lakehead University*
B.A. (Native studies, anthropology major). A study of Indian, Metis, and Inuit life in considerable detail.

**•Summer Employment Program (1988)***
**Confederation College**
*McMaster University*
*Trent University*
*University of Toronto*
*University of Western Ontario*
The program is designed to acquaint Native secondary school students with the kind of environment in which they might find themselves if they decide to continue their studies at the postsecondary level, by providing meaningful employment for these students on a university or college campus.

The summer employment program for Native students offers the following advantages:
1) permits Native students to become familiar with a postsecondary institutional environment;
2) offers summer employment opportunities to Native students;
3) offers assistance to university and/or college staff by enabling them to hire summer help.

Note: The lack of contact and familiarity with the postsecondary institutional environment is a significant factor in Native students' not continuing their studies at the postsecondary level, even when they are academically qualified and financially able to do so.

**•Teacher Education**
Teacher education programs for Native people have been instituted at two universities in Ontario: Lakehead University and Laurentian University. These programs are intended to increase the number of Native teachers. Also, skilled teachers of Native ancestry will be of great assistance in responding to the needs of children in the schools in Native communities.

*Lakehead University*
Lakehead University offers a four-year undergraduate program in teacher education for Native people. Students enroll in a concurrent program, Bachelor of Arts (General) – Bachelor of Education (Native), which is intended to increase the number of qualified Native teachers in northwestern Ontario and to prepare them to meet the special social and cultural needs of Native communities. Graduates will be recommended for an Ontario Teacher's Certificate. Lakehead University also offers a Native Language Instruction Program, designed for individuals who will instruct either (a) individuals whose first language is Algonquin or (b) individuals whose Native language is a second language to English.

Admission to the teacher education program will be granted to persons of Native decent who are recommended by a Native organization.

Candidates must, in addition, hold an OSSHGD with an overall average of at least 60%, or satisfy the requirements for adult admission to Lakehead University.

*Laurentian University*
The Faculty of Education at Nipissing University College offers a one-year consecutive program leading to a Bachelor of Education degree. This program prepares candidates for teaching in Ontario schools and meets the requirements of the Ministry of Education for teacher certification.

As part of this program students may take an optional course entitled the Education of Native Canadians. This course is an introduction to curriculum construction for schools attended by children of Native Canadian ancestry. Although this course does not lead to a special certificate, it does provide an opportunity for practice teaching in Manitoulin Island reserve schools or in small Native communities bordering on James Bay.

Admission to this program requires an approved degree from an accredited university.

A Native Classroom Assistant Certificate is granted to successful graduates of a program offered at the Laurentian campus by the Faculty of Education, Nipissing University College, in cooperation with the Department of Native Studies.

The program consists of three non-credit five-week courses, each to be taken in a separate summer session.

The program is open to persons of Native Canadian ancestry who have been selected by the responsible authorities of their reserves.

For further information write to the Dean of Education, Nipissing University College, Box 5002, North Bay, Ontario P1B 8L7.

**•Transitional Year Program**
*University of Toronto*
For information on this program please refer to the University of Toronto section.

**Special College of Arts and Technology Programs**
Cambrian College offers four unique postsecondary programs for Native students.

**•General Arts and Science Program – Native Studies**
This one-year postsecondary program has been specifically designed for Native students who wish to pursue a more general postsecondary education before committing themselves to a specific career path. This program will give students a solid foundation for pursuing postsecondary education; provide an opportunity for Native students to relate their identity and heritage; provide an opportunity for students to take Native studies subjects; and help students prepare themselves in English, mathematics, and science for further training.

Prerequisite: mature students – applicants who lack the minimum academic prerequisites but who are at least 19 years of age will be considered on an individual basis; or OSSD or its equivalent.

**•Law and Security Administration – Native Justice Education**
This program prepares graduates for employment in areas of the criminal justice system where sensitivity to Native culture, aspirations, and issues is desirable. The program meets the requirements of the recognized law and security administration – police education component and is enhanced by strong course offerings in Native studies. Employment opportunities are varied and exciting. Graduates will possess the knowledge and skills to obtain employment with a variety of organizations and agencies (both Native and non-Native) in the criminal justice system, or to pursue further postsecondary education.

Admission requirements: the minimum requirements for admission to the program is an OSSGD (27 credits at the general or advanced level); or equivalent as determined by the college *and* completion of a program-specific questionnaire. The program is limited to an intake of 30 first-year students for semester 1. Because applications will greatly exceed the number of places available, the selection process will be competitive. A criminal record may be a serious impediment to employment in any field related to a law and security administration program.

**•General Arts and Science – Native Skills Training**
This postsecondary program consists of a common first semester, followed by three semesters in a skills training program of the student's choice. The common first semester consists of the following areas of study: English 1050-4, math 0100-4, life skills NTS 1140-9, computer literacy 100-4. The subsequent three semesters will consist of a skills training program of the student's choice in the following areas: drafting, food preparation, heavy-duty equipment mechanic, industrial maintenance mechanic, machine shop, welding, carpentry, masonry, cabinet making, clerk typist, accounting assistant.

Admission requirements: the minimum requirement for admission to a postsecondary program is an OSSD (30 credits), or an OSSGD (27 credits), its equivalent, or mature student status.

**•Native Child and Family Worker Program**
The Native child and family worker program is a new five-semester program. This is a limited-enrolment program; 35 students will be accepted. It provides an opportunity for Native students to develop the necessary skills to seek employment in the human services field. Students enrolled in the program will gain an understanding of the Native family and the Native community. They will be equipped to provide services to children and/or their families in a Native or non-Native setting and to organize band-based programs.

Admission requirements: the minimum requirement for admission to a postsecondary program is an OSSD (30 credits), or an OSSGD (27 credits), its equivalent, or mature student status.

*For further information*
Contact the Centre for Advancement of Native Organizations and Education, Cambrian College, chairman: Mrs. Marie Tincombe-Shaw. Telephone (705) 566-8101, ext. 418.

**Financial Assistance**
Detailed information on financial assistance may be obtained from the financial aid administrator of the institution or from:
Student Awards Branch
Ministry of Colleges and Universities
Mowat Block, Queen's Park
Toronto, Ontario M7A 2B4
Telephone (416) 965-5241

**Adult Training and Apprenticeship Programs**
Manpower programs are offered by training centres that are generally operated through the col-

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*Also offered at Fanshawe, Mohawk, Northern, Sault, Seneca, Sir Sandford Fleming, and St. Clair.

leges of applied arts and technology. The adult training and apprenticeship programs include programs specifically designed for or adapted to the needs of Native people. Information regarding the adult training programs is handled by representatives of the colleges of applied arts and technology who are in contact with chiefs, band councils, locals, and individuals within the communities. Program information is also provided by the province for circulation through all Canada Employment centres.

Adult training programs are provided for persons wholly sponsored by the provincial and/or federal governments, for partially sponsored students, and for those who wish to pay their own fees and seek financial assistance through the Ontario Student Assistance Program (OSAP). Information on sponsorship can be obtained from Canada Employment centres, social counsellors, band councils, and the Department of Indian Affairs and Northern Development.

Almost 300 adult training and apprenticeship programs are currently offered, and a list can be obtained from the colleges of applied arts and technology or from the College Affairs Branch of the Ontario Ministry of Colleges and Universities. Many programs can be made available on the reserves. Programs requiring special facilities, however, are not offered outside established training centres.

### • Specific Employment Programs for Native People

Several programs have been established in partnership with the Canada Employment and Immigration Commission to promote employment prospects for Native people. These programs are offered through established training centres and may be offered on a reserve, where feasible.

*Appliance Servicing*
Mobile teaching services will be taken to the reserves to teach Native people appliance servicing, with an emphasis on the use of propane gas.

*Academic Upgrading*
Academic upgrading concentrates on the communications, mathematics, and science required to obtain and hold employment or to enter a skill program that leads to employment. Generally, individualized instruction is available so that the students may start at any time during the program and proceed at their own rate of learning. Life skills may be used in academic upgrading to assist the student to overcome earlier learning problems. Some programs are directly oriented to Native students and are taught on the reserves.

*Band Management*
An "outreach" approach to band management has been developed by Confederation College.

*Building Custodian (Certified)*
Northern College has adapted the College Affairs Branch urban program for janitors to be employed by band councils for their schools located on Indian reserves.

*Cabinet making and fine woodworking*
Northern College can train Native students in cabinet making and fine woodworking. Graduates may find employment in custom furniture manufacturing, commercial cabinet making, and interior finishing.

*Clerk/Typist*
Northern College adapted this College Affairs Branch urban program to train Native people to be employed by band councils, Department of Indian Affairs and Northern Development offices, Hudson's Bay stores, and small businesses. Skills taught include typing, bookkeeping, basic accounting, stenography, and secretarial and clerical expertise. Short business and commerce courses can be moved from one small community to another.

*Carpenter, Construction Trades, and Trades Helper*
These urban programs have been modified to suit reserve locations, available materials, etc. Confederation College, Georgian College, Northern College, and Sir Sandford Fleming College have been prominent in this training area. The Apprenticeship Branch has made some concessions in the area of compulsory apprenticeship for carpenters, electricians, and plumbers when the training is to be put to use on the isolated reserve in order to improve living conditions. If the Native person wishes to leave the reserve, he/she would have to register as an apprentice in a particular trade before these skills could be put to use. Abatements or credits would be granted for the training.

*Community Improver Program*
This program is offered by Northern College to help develop skills required to maintain the physical aspect of the community.

*Health Care Aide, Nursery Aide, and Nursing Assistant*
These programs are standard. Generally speaking, the Native person has to leave the reserve for training in order to have the necessary clinical facilities available. Upon graduation, employment may be available at hospitals located near the reserves.

*Heavy-Equipment Operator – Single Machine or Multiple Machine (eight pieces)*
These courses are offered by Northern College to train Native students in the safe operation and maintenance of such equipment as bulldozers, loader scrapers, graders, tandem trucks, and excavators. Graduates will find employment on roadbuilding, water main or sewer construction, and earthmoving projects.

*Indian Economic Development*
Available as a two-year, four-semester diploma program.

*Logging and Small-Sawmill Operator*
This program is offered at Canadore, Confederation, and Northern colleges in accordance with need.

*Maintenance Servicing*
Confederation College offers this College Affairs Branch urban program to train Native people to maintain buildings, including schools, on the reserves.

*Marine and Small-Powered Equipment Mechanic*
Confederation and Northern colleges have offered this program extensively. Training has ranged on occasion from 16 weeks to the full 40 weeks. On occasion, the Department of Indian Affairs and Northern Development has provided tools and a workshop, which are left in place for the use of the graduates when the program has been completed. Emphasis generally has been on snow-machine and outboard-marine repair and maintenance. This program is offered in accordance with need.

*Native Drug and Alcohol Counsellor*
Students are taught to counsel Native people on the effects of alcohol on the community. This course is offered at Northern and Confederation colleges.

At Confederation College, this is a three-semester postsecondary program offered every other year. A four-semester Native Community Worker program is available. A five-semester Native Child and Family Worker (diploma) program is also available.

*Paraprofessional Instructor*
This program, offered at Northern College, is designed for paraprofessionals or assistants to the teacher. Much of the training is similar to a form of apprenticeship. A major advantage that the graduates have is fluency in Native languages and a knowledge of Native history.

No teaching certificate can be offered, although the Ministry of Education is prepared to consider the completion of this program as meeting part of the prerequisite for entry into a teacher's college.

*Sawmill Operation and Maintenance*
This course is offered by Confederation College in many small Native communities.

*Small-Boat Construction, Repair, and Maintenance*
Developed originally by Cambrian College for Manitoulin Island, this program has since been revised by the James Bay Educational Centre at Moosonee. Native craft construction is the main aspect, but the program also provides for the local repair of boats and thus holds down cost and time delays for such repairs.

*Small-Business Management*
Confederation College offers a postsecondary program for small-project developers to provide the managerial skills required to design, organize, and implement community programs. Sir Sandford Fleming College also provides training in small-business management.

### Courses Available at Colleges of Applied Arts and Technology

### • Applied Arts

**Durham**
Canadiana

### • Continuing Education (Part-time – general interest)

**Cambrian**
*(Birch Island)*
Dancercize
Babysitting
Ceramics
Driver education
Karate
Piano and guitar

*(Espanola)*
Afternoon dancercize
Basic cake decorating
Cabinet making
Calligraphy
Defensive driving
Floral arranging
Furniture upholstery
Introduction to microcomputers
Knitting, crocheting, and needlework
Oil and acrylic painting
Small-engine repair

*(Little Current)*
Basic cardiac life support
Calligraphy
Dancercize
Karate

*(Massey)*
Basic cardiac life support
Bookkeeping
Calligraphy
Crafts
Farm animals – selection and care

*(Webbwood)*
Dancercize – exercise
Floral arranging
Standard first aid

*(West Bay, Mindemoya, Providence Bay)*
Basic cardiac life support
Car care for women
Dancercize
Driver training Introduction to microcomputers
Karate
Personal typing
Standard first aid

*(Gore Bay, Kagawong)*
Bookkeeping
Ladies' fitness
Painting workshops

*(Manitowaning, South Baymouth, Wikwemikong)*
Babysitter training
Basic cardiac life support
Bookkeeping
Furniture making
Knitting and crocheting

**Confederation**
Conversational Ojibway
Cultural awareness
Supervisory skills

**•Manpower Retraining, Industrial Training, and Apprenticeship (Full-time – adult training)**

**Algonquin**
*Basic job readiness training (Native)*
Native Canadians who are seeking a job or are coping with new situations can benefit from BJRT (Native). The course consists of instruction in life skills (learning to apply problem-solving skills to life situations), finding and keeping a job, and effective communication at home and at work.

*Course duration:* 16 weeks, Monday through Friday.

**Cambrian**
*(Espanola)*
Academic upgrading: levels 1 to 4
Home support

*(Gore Bay)*
*Heavy-equipment operator*

*(Sudbury)*
Community health representative program
Native transition
Training for National Native Alcohol and Drug Abuse program

*(West Bay)*
Academic upgrading
Leather and beadwork
People in trades and technology

*(Wikwemikong)*
Academic upgrading
Basic job readiness training
Log cabin construction

*(Little Current)*
Dining room service
Food preparation (basic)
Orientation to home support

**Canadore**
Band maintenance (68 weeks over three years)
Native alcoholism counsellor (40 weeks)
Specialized training programs for reserve occupations (planned under Canadian Job Strategies)

**Centennial**
College preparatory program
English as a second language (ESL)
Preparatory education program (PEP)
Heavy-duty equipment mechanic (diesel)
Marina and small-power equipment mechanic
All postsecondary programs

**Confederation**
Academic upgrading
Building trades helper
Business and commerce
Community health worker
Community improver
Construction trades helper
English as a second language
Food preparation (camps)
Homemaker
Life skills
Orientation to industrial employment
Small-business management
Tourist resort operator

**Fanshawe**
*(Muncy)*
Adult education program

**Georgian**
Georgian College offers academic upgrading and some skill programs on various reserves in the region.

**Lambton**
Academic upgrading (levels 2, 3, and 4)
Band management

**Loyalist**
The Mohawks of the Bay of Quinte/Tyendinaga Reserve is located in the region served by Loyalist College. Native students apply to and register in a wide variety of continuing-education courses, skill programs, and postsecondary programs.

**Mohawk (New Credit Campus)**
Basic training for skills development
Indian band management
Microcomputer operator
Women into trades and technology

**Northern**
Academic upgrading
Alcohol and drug-abuse counsellor training
Ambulance and emergency care
Appliance servicing
Band management
Basic training for skill development (levels 2 and 3)
Bookkeeper-typist
Building custodian (certified)
Business administration
Clerk-typist
Construction labourer
Construction trades helper (plumbing and electrical)
Core program
Early childhood education
Elementary carpentry
English as a second language
Fine arts and crafts
Forestry filers
General vocational preparation
Heavy-equipment operator
Home support worker
Marine and snow vehicle maintenance
Native fine arts and crafts
Native recreation worker
Native social service worker
Nursing (three-year diploma program)
Nursing assistant
Orientation to employment
Paraprofessional instructor
People into trades and technology
Secretarial
Silk screening
Small appliance service
Special constable
Technical upgrading program

**Seneca**
Seneca College offers courses and programs of interest to Native students as well as having a Native Student Advisor, Mr. Bruce Berman (416) 491-5050. Examples of these programs are:
Academic upgrading
Audio-visual technician
Coaching techniques (gymnastics and figure skating)
College preparatory
Dental assisting
Design arts
Early childhood education
Government administration
Law enforcement
Outdoor recreation technician
Parks operations and services
Recreation facilities administration
Recreation facilities management
Tourist industry administration
Various business programs
Various secretarial programs
Various technology programs

**Sheridan**
Academic upgrading
English as a second language

**•Social services**

**Sir Sandford Fleming**
Native economic development and small-business management
Marina management for Natives

**Confederation**
Native alcoholism worker
Native community worker
Cultural anthropology
Group-home management
Native people and the law
Social support services
Band management

**St. Clair**
Basic job readiness training (Native)

## Courses Available at Ontario Universities

### • Arts – Language

**Lakehead**
Elementary Ojibway or Cree, Algonquian, Iroquoian

**Laurentian**
An introduction to Ojibway
Advanced Ojibway
An introduction to Cree
Advanced Cree

**Ottawa**
Elementary Eskimo and Cree language courses

**Trent**
Oral Mohawk
Oral Ojibway
Advanced oral Ojibway
Advanced oral Mohawk

### • Geography

**Windsor**
The arctic environment
A summer course offered in the Canadian Arctic, with northern and southern students interacting in the classroom and the field. Arctic climatology, geomorphology, and terrestrial and aquatic ecology are covered, with emphasis on individual and group research projects.

### • Native Studies

**Laurentian**
Aboriginal people and the criminal justice system
Advanced Cree
Advanced Ojibway
An introduction to Cree
An introduction to Ojibway
Canadian law, politics, and aboriginal people
Contemporary Native issues
Education, identity, and Native culture
La religion des Amérindiens du Canada
Native arts of the Americas: retrospect and transition
Native people and newcomers in Eastern Canada
Native people and newcomers in Western Canada
Native people and the Fourth World
Nature and man: A Native view
North American Native people: Tradition and culture
Original peoples of Central and South America
Original peoples of North America
Seeing with a Native eye
Selected themes

**Trent**
Native community development
Native studies methodology
Native studies field work
Social services and the Native people
Urbanization and the Native peoples

### • Sociology and Anthropology

**Western**
Contemporary Natives of Canada

### • Teacher Education

**Lakehead, Laurentian, Western**
See the *Teacher Education* section of this directory for details.

**Further Information**
For more detailed information on the programs listed in this section, check the individual college or university sections in this publication, consult the institutions' calendars (available in secondary school guidance offices), or get in touch with the registrar's office.

# Registered Private Vocational Schools

### Introduction

A wide range of training programs exists to help Ontarians prepare for the job market or enter the professions.

For many occupations, private vocational schools can provide a suitable alternative to the training offered by colleges, universities, apprenticeship, and other provincial skills development programs. Private vocational schools have been a part of postsecondary education for many years; in fact, several of the schools have recently celebrated their one hundredth anniversaries.

There are over 200 private vocational schools registered by the province, and although several of them offer training in a variety of occupations, the majority focus on courses that will prepare the student for a clearly defined occupation, such as those listed in this directory. However, all have the common objective of bringing the student, in the shortest possible time, to the level of a beginning practitioner for the advertised occupation. Courses are usually provided in morning, afternoon, and evening sessions and in some cases by correspondence.

Since practical skills are stressed and liberal art studies minimized, the programs will appeal to persons needing practical skills to enter the work force as quickly as possible. Included in this group are students who may not be particularly interested in academic studies at this point in their career, as well as those who need specific practical skills in addition to their academic qualifications to become more competitive in the market place.

### Registration of Private Vocational Schools

Private vocational schools are privately owned and are operated as commercial enterprises. However, they must be registered under the Private Vocational Schools Act, which is administered by the Private Vocational Schools Unit, Ministry of Colleges and Universities.

Registration of a school under the act means that it has met the requirements set out in Regulation 801 under the act, regarding curricula, teacher qualifications, advertising, course fees, refund policies, and general management practices expected of any business enterprise. Nevertheless, as potential consumers, when choosing a program, students must exercise the same care and precautions that they would undertake when making any major purchase, especially when it is considered that not only their money but also their time is involved.

The schools offer many courses in each subject or occupational area. Courses vary widely in terms of the subject matter that will be covered. For example, one course in radio may teach radio repair, while another may prepare a person for a position with a broadcasting company. It is suggested that students write to the schools offering the subjects that are of interest to them in order to obtain specific information prior to undertaking any formal arrangements with any one specific school.

Although two or more registered schools may offer programs and courses with similar titles, this does not mean that the courses are of equal merit or will be of equal value to the student. Each school is registered on the basis of its own program offerings, and it is the student's responsibility to decide which school and courses best meet his/her needs. The assessment of a school by the potential student should include not only the curriculum but also the facility, the equipment, and the calibre of the teachers; all these aspects should be assessed in relation to the tuition costs.

### Sales or Admissions Representatives for Private Vocational Schools

As a service to clients who live far away, some schools employ a representative to meet with prospective clients. Usually the meeting takes place in the client's own home.

Ontario law requires that the school's agent have a permit bearing his/her name and the name of the school represented. The permit should be presented to the prospective student whenever business is discussed away from the school.

Applicants are cautioned not to become involved, outside the school's premises, with anyone who does not possess a valid permit from the school bearing the representative's name.

### Types of Courses Offered

Registered private vocational schools offer residence courses, combination courses, and correspondence courses.

*Residence courses*

Residence courses are those which require that the student attend formal classes. They can be offered on a full-time or part-time basis.

*Combination courses*

Combination courses enable students to complete the majority of their program by correspondence. However, in order to complete the course and become eligible to receive the school's diploma, students must attend some practical sessions at the school or obtain some on-the-job experience for a specified period of time.

*Correspondence courses*

There are hundreds of programs and courses that can be studied by correspondence through schools registered by the Ministry of Colleges and Universities. They fall into two groups.

Group 1 includes specific programs approved by the Ministry of Colleges and Universities as having potential to lead to direct job entry. They are designated by an asterisk (*) in this directory.

Group 2 consists of other programs offered by the registered schools. They fall into the following categories:

- secondary school subjects or other preparatory courses which must be completed prior to acceptance into formal training for an occupation or career;
- programs that focus on personal or professional development;
- programs that are considered recreational in nature;
- programs that may provide students with credits towards the requirements designated by certain associations or other regulatory bodies for entry into technical or professional occupations.

Further information about the programs listed in this publication is available from the Private Vocational Schools Unit of the Ministry of Colleges and Universities at (416) 965-5348.

*Apprenticeship*

There are some programs offered by the private vocational schools that are closely allied to apprenticeship. A number of trades are regulated under the Apprenticeship and Tradesmen's Qualification Act. Regulations under this act require that all persons practising certain trades, such as motor vehicle mechanic, hairdresser, or carpenter, hold a Certificate of Qualification, obtained through apprenticeship training. It is suggested that students read the section "Apprenticeship" in this guide before making any decisions about programs of this nature.

### General Admission Requirements

For enrolment in most private vocational school courses, students should meet one of the following requirements:

- Grade 12 standing or the equivalent;
- mature student status. Mature students should be 19 years of age and have been away from school for at least one year.

Applicants who receive mature student status are reminded that some employers require a Grade 12 diploma as a qualification of employment even if a postsecondary training program has been successfully completed.

Applicants should obtain information about any additional or special admission requirements from the school of their choice, as well as the employers in their chosen occupational areas.

### Financial Assistance for Students

A limited number of private vocational schools are eligible to participate in various government financial assistance programs for students. Normally this assistance will apply only to courses that are twelve weeks or longer in duration and require Grade 12 or equivalent for enrolment. For more complete details consult the Student Awards Branch, Ministry of Colleges and Universities, 8th floor, Mowat Block, Queen's Park, Toronto, Ontario M7A 2B4, or refer to the section "Financial Assistance for Students" in this guide.

### Opportunities for Employment

The fact that an individual has completed a training program, whether undertaken in a college, university, or private vocational school, will not guarantee employment. However, a good program should provide the graduate with the skills required to meet the minimum employment standards of a particular occupation.

### Factors to Consider Before Enrolling in a Private Vocational School

1. Potential students should evaluate their own aptitudes realistically and decide whether they have the physical and mental qualities and the educational background required to profit from the chosen course and whether they are willing to devote the time and energy required to succeed in the course.
2. Prior to enrolling in a school, the applicant should ensure that the school is registered to operate in Ontario.
3. It is suggested that applicants look at the total cost, including the enrolment fee, tuition, laboratory fees, books, transportation, room and board, and incidental costs, as well as the cost of interrupting the training.
4. Applicants should ensure that all aspects of the training program, including all tuition costs, duration of the program, starting date, and refund policies are stated in the contract to be signed by them.
5. *Applicants should read the contract and be sure they understand it before signing it.* More detailed information can be found in the section on contracts, below.
6. It is suggested that applicants visit a school and see the facilities and equipment. If possible, they should talk with some of the school's stu-

dents or graduates or with employers who have hired graduates.

### Additional Information

Further information may be obtained from:
Superintendent, Private Vocational Schools Unit
College Affairs Branch
Ministry of Colleges and Universities
Queen's Park
Mowat Block
9th Floor
Toronto, Ontario M7A 1B8
Telephone: (416) 965-5348

To obtain specific information about particular courses, students should write to the schools that interest them and request information relating to costs, course content, length of training, entrance requirements, and starting dates for courses.

Further information may also be obtained by writing to the Private Career Education Council, Continental Bank Building, 130 Adelaide Street West, Suite 718, Toronto, Ontario M5H 3P5.

## Contract Between the School and the Potential Student

### The Contract

Enrolment in a private vocational school must be done by means of a contract. The school is responsible for providing only those educational services that are outlined in their contract or brochure under the conditions or terms specified. The form of the contract must be approved by the Superintendent of Private Vocational Schools, and the actual contract must be signed by both the applicant and the school's owner. In the case of an individual under the age of eighteen, the signature of a guarantor must be included. Both parties to the contract should hold a copy bearing original signatures. Once the contract has been signed by the applicant or the guarantor, it is legally binding.

### Retention and Repayment of Fees

In order to ensure that students understand the full cost of training or their liability on withdrawal from a school, the ministry requires that some excerpts from the Revised Statutes of Ontario, 1980, and Ontario Regulation 801 as amended under the Private Vocational Schools Act, are included as part of the school's contract. These excerpts provide information on the following:

- the registration fee;
- the amount of tuition fee to be retained by the school or refunded to the student should the student withdraw from the school;
- the amount of tuition fee to be retained by the school or refunded to the student should the student be dismissed from the school for whatever cause;
- the time period within which a refund must be made by the school to the student.

Should there be any tuition fee refund due to the student, the school is only obligated to make the refund if the student has notified the school in writing of his/her intention to withdraw. The letter must either be sent by registered mail or be delivered in person to the school. The date of withdrawal from the school will be the date when the school receives the written notice of withdrawal.

**It is advised that all aspects of the contract be clearly understood before the contract is signed by the student or guarantor.**

### How to Use This Directory

Section 1 of this directory gives a partial list of the courses available on a residence or combination basis.

Section 2 gives a partial list of the courses available by correspondence or on a combination basis.

Section 3 lists the registered schools that offer the courses listed in the previous two sections. The schools are listed in alphabetical order and are cross-referenced with the courses they offer. The numbers that follow each course can be matched with the numbers by the side of each school.

Only those schools that had applied for registration or reregistration by December 31, 1986, are included. A list of private vocational schools registered since December 31, 1986, may be obtained from the Private Vocational Schools Unit at the address given in the "Additional Information" section above.

Certain schools have the designation PCEC following the address. This indicates that they are members of the Private Career Education Council, which is a professional association of private vocational schools in Ontario.

# Section 1: Residence Courses

| Courses | Schools |
|---|---|
| Accounting | C-2, C-5, C-16, L-5, O-3, P-3, P-5, S-5, T-6, W-2 |
| Aesthetics | A-2, C-3, D-1, E-2, E-5, E-7, G-5, I-1, I-5, J-2, L-2, L-8, M-5, M-10, P-4, S-3, S-14, V-2, Z-1 |
| Animal Care Aide | O-3 |
| Announcing (Radio and Television) | N-2 |
| Auctioneering | M-8, S-10 |
| Audio Recording Engineer | A-12, O-4, R-4, T-5 |
| Audio Production Techniques | A-12, O-4 |
| Backhoe Operator | E-1 |
| Bank Teller | A-11, C-5, C-15, C-17, E-3, H-3, M-4, O-3, S-9, T-6, W-2, W-3 |
| Bartending Management | A-11, H-3, M-6, R-3, T-3, T-4 |
| Blueprint Reading | I-2, K-1, L-6, M-15 |
| Bookkeeping | C-2, C-15, C-17, F-1, O-3, P-3, P-5, S-5, S-6, S-9 |
| Business Administration/ Management | A-11, C-2, O-3, P-2, S-1, S-5, T-6, W-3 |
| Child Care Attendant | O-3 |
| Clerk | C-16, M-12, O-3, S-5 |
| Clothing Design and Manufacture | E-8 |
| Clothing Design and Manufacture (Haute Couture) | E-8 |
| Commercial Writing | N-2 |
| Computer Engineering Technology | A-10, H-4, R-2 |
| Computer Maintenance Technology | A-10, C-21, M-1, R-2 |
| Computer Operator (Accounting and Bookkeeping) | A-11, L-5, O-1, P-3, P-5 |
| Computer Operator (Micro) | B-2, C-17, C-21, D-7, H-1, H-3, H-4, L-4, O-1, O-3, P-3, S-5, T-6, W-2, W-3 |
| Computer Programmer | A-10, C-5, C-7, C-18, C-19, C-21, D-5, E-3, H-4, H-5, I-4, L-5, P-2, P-5, T-6 |
| Cosmetology | A-8, C-4, D-1, D-4, L-8, S-4, V-2, V-3, Z-1 |
| Court Reporting | R-2 |
| Data Entry Operator | C-5, C-15, D-2, I-4, T-3 |
| Data Processing | A-11, E-3, H-4, O-1, P-2, S-5, T-5 |
| Dental Office Assistant | C-11, C-16, T-6 |
| Dicta-Typing | C-5 |
| Diving: Air—Mixed Gas | C-9 |
| Diving: Hyperbaric Decompression Chamber Operator | C-9 |
| Diving: Underwater Photography/ Television | C-9 |
| Diving: Underwater Welding Techniques | C-9 |
| Drafting | I-2 |
| Draping (Fashion Design) | A-1 |
| Electrolysis | D-1, E-5, E-6, G-5, I-5, O-6, P-4, V-2, Z-1 |
| Electronics (Applied) | A-10, D-5, O-3, R-2 |
| Electronics (Basic) | A-10, R-2 |
| Electronics (Engineering Technician Level) | A-10, A-11, C-21, D-5, H-4, R-1 |
| Electronics (Engineering Technologist Level) | A-10, D-5, R-1 |
| Esthetics (see Aesthetics) | |
| Fashion and Photographic Modelling | A-7, B-1, C-1, C-13, C-14, D-4, E-4, E-7, E-9, E-10, F-2, F-3, G-2, G-6, I-6, J-2, J-3, L-1, M-2, M-13, M-14, N-3, R-6, S-8, S-11, S-12, S-16, T-2, U-1, V-1, V-4 |
| Fashion Design | A-1, E-8, G-1, I-3 |
| Fashion Merchandising | E-8, F-1, I-3, T-6 |
| Fashion Sketching | A-1, E-8 |
| Floral Design | T-7 |
| Forklift Truck Driver Training | M-7 |
| Hat Making and Accessories | A-1, E-8 |
| Hat Making (Millinery) | A-1, E-8 |
| Haute Couture Techniques | A-1, E-8 |
| Health Care Aide | C-6, C-10, H-2, N-4, O-5 |
| Hotel/Restaurant Operations | C-12, C-20, O-3, T-6, W-3 |
| Interior Design | I-3, O-3 |
| Job Search Techniques | G-4 |
| Kennel Operation | S-2 |
| Law Clerk | C-15, P-3, S-13 |
| Locksmithing | A-3 |
| Make-up Artistry | A-4, C-1, E-4, E-7, E-9, E-10, F-2, G-2, G-5, I-1, I-6, L-1, M-5, P-4, R-6, S-4, T-2, V-2, V-3 |
| Management Training For Women | O-1 |
| Massage Therapy (Application for Registration Examination) | C-4, D-1, K-2, L-2, S-15 |
| Massage Therapy (Shiatsu) | K-2, S-7 |
| Medical Office Assistant | C-11, N-4, S-9 |
| Modelling (see Fashion and Photographic Modelling) | |
| Pattern Making | A-1, E-9, G-1 |
| Pharmacy Assistant | N-4 |
| Private Investigation | C-7, I-7 |
| Quality Control | G-8 |
| Receptionist | H-1, H-3, J-4, O-3, P-2, R-3, S-5 |
| Retail Florist | O-3 |
| Sales | C-21, P-3, P-5, S-5, S-9, W-3 |
| Secretary | C-2, C-5, C-15, C-16, D-7, E-3, H-1, H-3, H-6, J-4, M-12, O-3, P-2, P-3, R-3, S-5, S-9, T-6, W-1, W-2, W-3, W-4 |
| Secretary: Executive | C-5, H-1, H-3, O-3, P-2, S-5, W-2, W-3, W-4 |
| Secretary: Legal | C-2, C-5, C-7, C-16, H-1, H-4, H-6, J-4, O-3, P-2, P-3, R-5, S-5, W-3 |

| Courses | Schools |
|---|---|
| Secretary: Medical | C-16, H-1, H-4, J-4, O-3, P-2, P-3, R-5, W-3 |
| Security Guard | C-7, O-3 |
| Shorthand | H-6, J-4, M-12, P-3, P-5, R-5, S-5, S-6, W-1 |
| Systems Analysis and Design | C-17, C-19 |
| Tailoring | A-1 |
| Television Technology | A-7 |
| Theatrical Make-up for Stage and Screen | A-4, C-1, J-2, J-3, P-4, R-6, S-4, V-2, V-3 |
| Tractor-Trailer Driver Training ('A' Licence) | A-5, A-6, B-3, D-6, E-1, G-9, M-11, P-1, P-6, T-1, T-9 |
| Travel Counsellor | A-9, A-11, C-5, C-8, C-11, C-12, C-15, C-16, D-7, E-3, H-3, O-3, P-3, R-3, R-5, S-1, S-9, S-17, T-6, T-8, U-2, W-2, W-3 |
| Typing | B-2, C-16, H-4, H-6, J-4, L-5, L-7, M-12, P-3, P-5, S-6, S-9, W-1, W-4 |
| Waiter/Waitress | R-3 |
| Welding: Aluminum | I-2, K-1, L-3, L-6 |
| Welding: Aluminum Heli–Arc | G-3, I-2, K-1, L-3, L-6 |
| Welding: Electric Arc | G-3, I-2, K-1, L-3, L-6, M-15 |
| Welding: High-Pressure Pipe | I-2, K-1, L-3, L-6, M-15 |
| Welding: Oxyacetylene | G-3, I-2, K-1, L-3, L-6 |
| Welding: Stainless Steel Pipe/ High-Pressure Pipe | I-2, K-1, L-3, L-6 |
| Welding: Underwater Techniques | C-9 |
| Word Processing | A-11, B-2, C-5, C-15, C-16, C-17, C-18, C-19, D-7, E-3, H-1, H-3, H-4, L-4, L-5, M-3, O-1, O-2, O-3, P-2, P-3, P-5, S-5, S-9, T-6, W-1, W-3, W-4 |

## Section 2: Correspondence Courses

| Courses | Schools |
|---|---|
| *Accounting | G-8, N-1, P-4, S-6 |
| *Art: Commercial (Fashion) | G-7 |
| *Bartending and Bar Management | C-16, G-7, R-3 |
| *Bookkeeping | C-2, G-7, N-1, P-4, R-3, S-6 |
| Business Administration/ Management (Basic Fundamentals) | C-2, G-7, N-1 |
| *Computer Programmer (Combination Course) | A-7 |
| Drafting (Theory) | G-7 |
| *Dental Office Assistant (Combination Course) | C-10 |
| *Electrolysis (Combination Course) | E-5 |
| *Electronics (Combination Course) | A-7 |
| Electronics (Theory) | G-7, M-9 |
| Estimator | G-7 |
| Export/Import (Sales and Service) | G-7 |
| General Records Clerk | C-2, G-7 |
| *Hotel Operation (Combination Course) | C-16 |
| Journalism | G-7 |
| *Kennel Operator (Combination Course) | S-2 |
| Marketing | G-7 |
| *Medical Office Assistant (Combination Course) | C-10, C-12 |
| *Medical Terminology/Medical Records Clerk | C-2, G-7, N-1 |
| Photography | G-7 |
| Preapprenticeship Theoretical Subjects | G-7 |
| Preprofessional Theoretical Subjects | G-7, M-9 |
| Receptionist | C-2, G-7, P-4, R-3 |
| Residential Interior Decorating | G-7 |
| Résumé Writing | G-7 |
| Selling (Principles and Techniques) | G-7 |
| Secretary | C-2, N-1, R-3 |
| *Shorthand | G-7, P-4, S-6 |
| Small Business Management | G-7, N-1 |
| Statistical Methods for Quality Control | G-7 |
| Store and Window Display | G-7 |
| *Systems Analysis and Design (Combination Course) | A-7 |
| Television Copywriting | G-7 |
| Textiles (Fashion Design/ Merchandising) | G-7 |
| *Travel Counsellor (Combination Course) | R-3 |

*Note:* A combination course requires practical experience and some in-school classes prior to completion.

*These courses have potential to lead directly to employment.

| Courses | Schools |
|---|---|
| Travel Office Clerk | G-7 |
| *Typing | C-2, G-7, L-6, S-6 |
| Waiter/Waitress | R-3 |

*Note:* A combination course requires practical experience and some in-school classes prior to completion.

*These courses have potential to lead directly to employment.

## Section 3: Schools

A-1 Académie des Couturiers
Canadiens (L')
267 Dalhousie Street
Ottawa K1N 7E3
Telephone: (613) 238-5233
Manager: R. Robinson

A-2 Academy of Esthetics
945 Barrydowne Road
Sudbury P3A 3T9
Telephone: (705) 560-0260
Manager: R. Villeneuve

A-3 Academy of Locksmithing (The)
128 Manville Road
Unit #17
Scarborough M1L 4J5
Telephone: (416) 288-8265
Manager: C. Passarello

A-4 Academy of Professional Make-up
Design Inc.
83 Scollard Street
Toronto M5R 1G4
Telephone: (416) 967-1717
Manager: A. Lambrou

A-5 ADANAC Truck Driver Training Limited
Cedar Heights Plaza
695 Markham Road
Suite 18
Scarborough M1H 2A5
Telephone: (416) 431-9476
Manager: W.R. Campbell

A-6 Advance Driver Training
13 King Street
St. Catharines L2R 3H1
Telephone: (416) 684-5556
Manager: C. Matthews

A-7 Aesthetics of London Inc.
428 Richmond Street
Suite 700
London N6A 3C9
Telephone: (519) 432-0707
Manager: J. Webb

A-8 Alanna V. Institute
130 Bloor Street West
Suite 402
Toronto M5S 1N5
Telephone: (416) 964-7800
Manager: H. Van de Mark

A-9 Algonquin Careers Academy
969 Bronson Avenue
Suite 205
Ottawa K1S 4G8
Telephone: (613) 230-8127
Manager: E. Blaine

A-10 A.M.J. Electronic College
275 First Avenue
Ottawa K1S 2G7
Telephone: (613) 238-2800
Manager: A.M. Jotoff
PCEC

A-11 AnderKoch Institute of Data
Processing
10 Young Street
Kitchener N2H 4Y8
Telephone: (519) 579-1630
Manager: N. Andersen
PCEC

200 Elgin Street
Suite 804B
Ottawa K2P 1L5
Telephone: (613) 238-2146/576-4550
Manager: B. Russel
PCEC

A-12 Audio-Visual Institute of Canada Inc.
1235 Bay Street
5th Floor
Toronto M5R 2A5
Telephone: (416) 964-6530
Manager: W. Obie

B-1 Barrett-Palmer Models International
Inc.
410 Queen Street
Suite 1
Ottawa K1R 5A7
Telephone: (613) 235-5145
Manager: E. Barrett

B-2 Bradson Word Processing Institute
155 Kent Street
Ottawa K1P 5P3
Telephone: (613) 237-5060
Manager: B. Chauvet
PCEC

B-3 Brown's Driving Academy Ltd.
54B Market Square
Trenton K8V 3V5
Telephone: (613) 392-4273
Manager: F.A. Holland

C-1 Cameo School of Self-Improvement
and Modelling Ltd.
379 Queen Street South
Kitchener N2G 1W6
Telephone: (519) 744-8989
Manager: J. Heaton

C-2 Canada College
A Division of Educational Update Ltd.
Mail only:
P.O. Box 293, Station M
Toronto M6S 4T3

Training:
39 Grenadier Heights
Toronto
Telephone: (416) 766-9456
Manager: D.A. MacLean

C-3 Canadian Centre of Esthetic Education
243 Eglinton Avenue West
Suite 4-5
Toronto M4R 1B1
Telephone: (416) 481-7312
Manager: N. Bernard/Y. Demeester

C-4 Canadian College of Massage and Hydrotherapy
Mail only:
P.O. Box 983
Sutton West L0E 1R0

Training:
85 Church Street
Sutton West
Telephone: (416) 722-3162
Manager: E. Szasz
PCEC

C-5 Canadian Institute of Business Ltd.
210 Dundas Street
London N6A 5J3
Telephone: (519) 672-9520
Manager: J. Barthwal
PCEC

660 Ouellette Avenue
Suite 206
Windsor N9A 1C1
Telephone: (519) 258-7870
Manager: J. Barthwal
PCEC

C-6 Canadian Institute of Health Care
1886 Eglinton Avenue West
Suite 1
Toronto M6E 2J6
Telephone: (416) 785-5572
Manager: M. Lapuente

C-7 Canadian School of Private Investigation and Security
3675 Keele Street
Suite 104
Downsview M3J 1M6
Telephone: (416) 638-2334
Manager: C. Franco
PCEC

C-8 Canadian Travel School Corp.
Mail only:
110 Bloor Street West
Lower Concourse
Toronto M5B 2W7
PCEC

Training:
4 Robert Speck Parkway
Suite 320
Mississauga
Telephone: (416) 276-8255
Manager: D.R. Cooper
PCEC

55 Town Centre Court
Suite 512
Scarborough
Telephone: (416) 296-9929
Manager: D.R. Cooper
PCEC

C-9 Canadian Underwater Training Centre
417A Queen's Quay West
Toronto M5V 1A2
Telephone: (416) 363-6822
Manager: V.L. Pavuls
PCEC

C-10 Caps Health Care Aide School
250 Wyecroft Road
Unit 8
Oakville L6K 3T7
Telephone: (416) 844-5588
Manager: E.P. Oswald

C-11 Career Canada College
1039 Upper St. James Street
Hamilton L9C 3A7
Telephone: (416) 387-5214
Manager: P.J. Dykstra
PCEC

385 Yonge Street
Toronto M5B 1S1
Telephone: (416) 977-7797
Manager: P.J. Dykstra
PCEC

Billings Bridge Plaza
2315 Riverside Drive
Ottawa K1H 7X6
Telephone: (613) 523-8355
Manager: P.J. Dykstra
PCEC

C-12 Careers in Travel
267 Edward Street
Aurora L4C 3W3
Telephone: (416) 727-1202
Manager: A. Morton

C-13 Carmelita's Self-Image Modelling Schools
70A Main Street North
Markham L3P 1X5
Telephone: (416) 471-4708
Manager: C. Newman

C-14 Celebrity Place
20 Ray Street
Oshawa L1G 5N1
Telephone: (416) 434-7813
Manager: Keri-Lee Durno

C-15 Century Business Academy Inc.
43 Eglinton Avenue East
Suite 606
Toronto M4P 1A2
Telephone: (416) 486-6772
Manager: T. Behich

Century Business Academy (West) Inc.
1700 Wilson Avenue
Suite 208
Downsview M3L 1B2
Telephone: (416) 249-2291
Manager: L. Rochon

C-16 College of Business Training
2820 Danforth Avenue
Toronto M4C 1M1
Telephone: (416) 698-5588
Manager: M. Barnett
PCEC

C-17 Commercial Business School
1801 Eglinton Avenue West
Suite 314
Toronto M6E 2H8
Telephone: (416) 783-9544
Manager: M. Hausman
PCEC

C-18 Computer Learning Centre
228 Charlotte Street
Suite 210
Peterborough K9J 2T8
Telephone: (705) 745-4804
Managers: S.V. Morrison/L.C. Gratton

C-19 Computer Science Institute
85 Albert Street
Suite 1610
Ottawa K1P 6A4
Manager: A. Aloko

C-20 Constellation Hotel School
The Constellation Hotel
900 Dixon Road
Toronto M9W 1J7
Telephone: (416) 675-1500
Manager: L.E. Van den Heuval
PCEC

C-21 Control Data Institute
75 Eglinton Avenue East
2nd Floor
Toronto M4P 2Z9
Telephone: (416) 491-9191
Manager: M. Stein
PCEC

130 Albert Street
Suite 1204
Ottawa K1P 5G4
Telephone: (613) 236-8282
Manager: E. Ducharme
PCEC

D-1 D'Arcy Lane Institute (The)
London Towers
379 Dundas Street
London N6B 1V5
Telephone: (519) 673-3965
Manager: R.P. Goyeau

D-2 Data Institute (The)
10 St. Mary Street
Suite 602
Toronto M4Y 1P9
Telephone: (416) 920-0307
Manager: E. Scott

D-3 Derma-Care Cosmetology Institute Ltd.
1290 Bay Street
2nd Floor
Toronto M5R 2C3
Telephone: (416) 964-6090
Manager: E. Rostas

D-4 Destinations Modelling School Ltd.
Shoppers World Brampton
Suite 208
Brampton L6Y 1N7
Telephone: (416) 457-8373
Manager: J. Walmsley

D-5 DeVry Institute of Technology
2201 Finch Avenue West
Weston M9M 2Z4
Telephone: (416) 741-9220
Manager: G.W. Fisher
PCEC

D-6 Double 'R' Truck Driver Training
2095 Weston Road
Suite 212
Weston M9N 1X7
Telephone: (416) 244-2725
Manager: P. Rajnauth
PCEC

D-7 Durham Business and Computer College
1305 Pickering Parkway
Suite 314
Pickering L1V 3P2
Telephone: (416) 427-3010
Manager: Mr. R. Mohamed
PCEC

E-1 Eastern Ontario School of Trucking Ltd.
18 Baneberry Crescent
Kanata K2L 2Y4
Telephone: (613) 836-5950
Manager: D. Sutherland

E-2 École D'Esthétique (L')
1855 LaSalle Boulevard
Sudbury P3A 2A3
Telephone: (705) 566-9544
Manager: Y. St. Onge

500-C Old St. Patrick Street
Ottawa K1N 5L9
Telephone: (613) 594-8230
Manager: N. Sonier

E-3 EGBC The Career College
2300 Yonge Street
Suite 1902
Toronto M4P 1P6
Telephone: (416) 440-0042
Manager: R. Bauer

E-4 Eleanor Fulcher Ltd.
791 St. Clair Avenue West
Toronto M6C 1B8
Telephone: (416) 653-9110
Manager: J. Benham

E-5 Electrolysis Educational Institute
Mail only:
2180 Yonge Street
3rd Floor
Toronto M4S 2B9
Telephone: (416) 488-9292
Manager: V.F.A. Bellefeuille
PCEC

E-6 Electrolysis School of Canada (1984) Inc.
6075 Yonge Street
Second Floor
Willowdale M2M 3W2
Telephone: (416) 221-6636
Manager: M.E. Clark
PCEC

E-7 Elegance Schools
700 Richmond Street
London N6A 5C7
Telephone: (519) 434-1181
Manager: P. Hugill
PCEC

E-8 Ellen Peterson Fashion Institute
Mail only:
P.O. Box 3271, Station D
North York M2R 3G6
PCEC

Training:
Towne & Countrye Square
Yonge Street and Steeles Avenue
Suite N-5
Willowdale
Telephone: (416) 222-4533
Manager: E. Peterson
PCEC

E-9 Esprit School of Self-Improvement and Modelling Inc.
349 Woolwich Street
Guelph N1H 3W4
Telephone: (519) 836-5630
Manager: B. Milburn

E-10 Expressions by DSK
32 Grand Avenue South
Cambridge N1S 2L6
Telephone: (519) 622-2360
Manager: D. Schmidt-Kirk

F-1 Fashion Institute of Canada (The)
2436 Yonge Street
Toronto M4P 2H4
Telephone: (416) 481-6477
Manager: C. Norman
PCEC

F-2 Flare School of Modelling and Self-Improvement
23 Parkside Drive
Newmarket L3Y 4R6
Telephone: (416) 898-1149
Manager: T. Chambers

F-3 Focus Modelling School
1818 Dundas Street East
Whitby L1N 2L4
Telephone: (416) 576-6796
Manager: J. Lickorish

G-1 Galasso School of Fashion Design
452 Danforth Avenue
Toronto M4K 1P4
Telephone: (416) 461-4415
Manager: J.M. Galasso

G-2 Gemini School of Self-Improvement and Modelling Ltd.
190 Victoria Street South
Kitchener N2G 2B9
Telephone: (519) 578-7520
Manager: C. Benn

G-3 General Welding School Ltd.
61-63 Jarvis Street
Toronto M5C 2H2
Telephone: (416) 363-7635
Manager: J.R. Lee

G-4 George Beshara Training Systems Inc.
204 Richmond Street West
Suite 516
Toronto M5V 1V6
Telephone: (416) 593-4700
Manager: G. Beshara

G-5 Gina's School of Aesthetics and Electrolysis
1803 Eglinton Avenue West
Toronto M6E 2H8
Telephone: (416) 789-2078
Manager: C. DeCicco

330 Weber Street North
Waterloo N2J 2Z5
Telephone: (519) 886-2090
Manager: C. DeCicco

G-6 Gloria Moody Charm and Modelling School
Mail only:
1420 Isabella Street
Thunder Bay P7E 5B9

Training:
Franklin Street School
4-125 Franklin Street
Thunder Bay
Telephone: (807) 622-9084
Manager: G. Moody

G-7 Granton Institute of Technology
263 Adelaide Street West
Toronto M5H 1Y2
Telephone: (416) 977-3929
Manager: V. Stewart
PCEC

G-8 G.R. Technologies Ltd.
6725 Airport Road
Mississauga L4V 1V2
Telephone: (416) 677-4123
Manager: G. Rosenzweig

G-9 Guest, Houghton & Associates Ltd.
1454 Dundas Street East
Suite 116
Mississauga L4X 1L4
Telephone: (416) 848-5266
Manager: Christopher W.J. Guest
PCEC

H-1 Halton Business Institute
460 Brant Street
Burlington L7R 4B6
Telephone: (416) 637-3415
Manager: D. Deacon
PCEC

H-2 Health Care Vocational Centre
253 Danforth Avenue
2nd Floor
Toronto M4K 1N2
Telephone: (416) 463-7970
Manager: M. MacDonald

H-3 Heritage College
158½ Rideau Street
Ottawa K1N 5X6
Telephone: (613) 230-9024
Manager: K. Dover

80 King Street
St. Catherines L2R 7G1
Telephone: (416) 641-1500
Manager: K. Dover

H-4 Herzing Institutes of Canada
396 Cooper Street
Ottawa K2P 2H7
Telephone: (613) 234-8099
Manager: L.H. Ritchie
PCEC

164 Eglinton Avenue East
Toronto M4P 1G4
Telephone: (416) 484-6996
Manager: P. Schell
PCEC

H-5 Honeywell Bull Institute for Continuing Studies
155 Gordon Baker Road
Willowdale M2H 3N7
Telephone: (416) 499-9022
Manager: N.F. Salt
PCEC

H-6 Huntsville Secretarial Teaching Service
19 Rogers Road
Huntsville P0A 1K0
Telephone: (705) 789-4267
Manager: M. Cockram
PCEC

I-1 Institut De Maquillage Nouveauté Inc.
207 - 5ième avenue
Ottawa K1S 2N1
Telephone: (613) 234-5740
Manager: M. LaCroix

I-2 Institute of Technical Trades Ltd.
734 Kipling Avenue
Toronto M8Z 5G5
Telephone: (416) 255-2369
Manager: E.T. O'Shaughnessy
PCEC

I-3 International Academy of Merchandising and Design (Canada) Ltd.
31 Wellesley Street East
Toronto M4Y 1G7
Telephone: (416) 922-3666
Manager: J. Kadlec
PCEC

I-4 International Data Processing College
139 King Street East
Hamilton L8N 1B1
Telephone: (416) 528-1108
Manager: J.M. Bodner
PCEC

I-5 International School of Haute Esthetique
Edith Serei Inc.
181 Eglinton Avenue East
Toronto M4P 1J9
Telephone: (416) 482-2773
Manager: M. Pendek

I-6 International Top Models
Head Office
151 John Street
Suite 304
Toronto M5V 2T2
Telephone: (416) 979-2717
Manager: A. Bell

39 Water Street North
Kitchener N2H 5A6
Telephone: (519) 578-3880
Manager: A. Bell

207 Dundas Street
London N6A 1G4
Telephone: (519) 438-4137
Manager: A. Bell

185 Somerset Street West
Suite 201
Ottawa K2P 0J2
Telephone: (613) 236-9575
Manager: A. Bell

I-7 Investigation Science of Canada
5647 Yonge Street
Suite 126
Toronto M2M 4E9
Telephone: (416) 243-1313
Manager: P. Martin

J-1 J.M. Transportation Specialists Ltd.
2286 Anson Rd.
Mississauga L5S 1E8
Telephone: (416) 672-1330
Manager: J.W. Mombourquette

J-2 Jean Macdonald's Advanced Academy of Make-Up and Aesthetics
Mail only:
c/o Beautyworks
730 Yonge Street
Toronto M4Y 1W8
Telephone: (416) 967-9107
Managers: N. Cole/K. Lennie

J-3 John Casablancas Centre (The)
777 Bay Street
Suite 421, P.O. Box 133
Toronto M5G 2C8
Telephone: (416) 977-1221
Manager: L. Thomas

The Village Square
2037 Pine Street
Upper Level
Burlington L7R 1E9
Telephone: (416) 632-8417
Manager: J. Crossman

J-4 Johnson Business Academy Ltd. (The)
1053 Main Street West
2nd Floor
Hamilton L8S 1B7
Telephone: (416) 523-4494
Manager: M.R. Johnson
PCEC

J-5 Judy Welch School of Modelling
1055 Yonge Street
Suite 210
Toronto M4W 2L2
Telephone: (416) 924-7474
Manager: J. Welch

K-1 K.W. Welding & Fitting Academy
169 Lexington Court
Unit "C" (off Columbia Street)
Waterloo N2J 4N8
Telephone: (519) 746-3431
Manager: G. Chatzissavas

K-2 Kikkawa Shiatsu School Inc.
3 Riverview Gardens
Toronto M6S 4E4
Telephone: (416) 762-4857
Manager: S. Kikkawa

L-1 Lakehead Modelling School and Agency
176 Rupert Street
Thunder Bay P7B 3X1
Telephone: (807) 344-5973
Manager: P. Potts

L-2 Lam School of Advanced Esthetics
2130 Lawrence Avenue East
Suite 201
Scarborough M1R 3A6
Telephone: (416) 757-3240
Manager: H. Lam
PCEC

L-3 Lincoln School of Welding
R.R. 2
Trenton K8V 5P5
Telephone: (613) 392-4826
Manager: E. Jones
PCEC

L-4 Logan Design Systems Ltd.
11 Yorkville Avenue
Suite 801
Toronto M4W 1L3
Telephone: (416) 927-0242/532-9546
Manager: M. Logan

L-5 London School of Business
20 Eglinton Avenue East
Suite 203
Toronto M4P 1A2
Telephone: (416) 482-3331
Manager: J. Hargan

31 2nd Street East
Cornwall K6H 5V2
Telephone: (613) 933-0023
Manager: J.B. Audy

111 Waterloo Street
London N6B 2M4
Telephone: (519) 432-1020
Manager: P. Wilde

L-6 London Technical School
90 Charterhouse Crescent
London N5W 5V8
Telephone: (519) 455-8460
Manager: G. Chatzissavas

L-7 Lorman Institute
738 Sheppard Avenue East
Suite 202
Willowdale M2K 1C4
Telephone: (416) 222-2626
Manager: J. Loughran

L-8 Luba Mera School of Aesthetics
222 King Street West
Hamilton L8P 1A9
Telephone: (416) 521-9010
Manager: L. Yewchyn-Pawczuk

M-1 Mai Training Centre
1271 Denison Street
Unit 60
Markham L3R 4B5
Telephone: (416) 475-2117
Manager: A.H. Magilsen

M-2 Marguerite Bant Modelling & Finishing School
159 Lake Street
St. Catharines L2R 5Y6
Telephone: (416) 684-8400
Manager: D. Cote

M-3 Markham Word Processing Centre
333 Denison Rd.
#18
Markham L3R 2Z4
Telephone: (416) 479-1811
Manager: R. Talavera

M-4 Marlo Business Academy
2600 Edenhurst Drive
Suite 200
Mississauga L5A 3Z8
Telephone: (416) 896-4089
Manager: J. Logel

M-5 Marvel Beauty School of Skin Care & Cosmetics
27 Yorkville Avenue
Toronto M4W 1L1 Telephone: (416) 923-0991
Manager: J. Redman

M-6 Master Bartending School
92 Delmar Drive
Hamilton L9C 1J7
Telephone: (416) 383-9553
Manager: C. Lombardo

M-7 Materials Handling Institute of Canada Ltd.
100 Westmore Drive
Unit 4
Rexdale M9V 5C3
Telephone: (416) 743-4884
Manager: C.M. Graham

M-8 Matthews Auctioneering School
Mail only:
P.O. Box 39
Flesherton N0C 1E0

Training:
14 Toronto Street
Flesherton
Telephone: (519) 924-2621
Manager: M. Matthews

M-9 McGraw-Hill Continuing Education Centre
330 Progress Avenue
Scarborough M1P 2Z5
Telephone: (416) 293-8787
Manager: J. Wilson

M-10 Mermaid School of Aesthetics
2303 Howard Avenue
Windsor N8X 3V4
Telephone: (519) 253-1324
Manager: B.D. Jorgensen

M-11 Merv Orr's Transport Training School
Mail only:
P.O. Box 3186
Cambridge-Preston N3H 4R6
PCEC

Training:
754 Hespeler Road
Cambridge
Telephone: 1-800-265-1260 (toll-free)
Manager: M. Orr
PCEC

8 Strathearn Road
Unit 25
Brampton
Telephone: (416) 791-8381
Manager: M. Orr

2415 Holly Lane
Suite 200
Ottawa
Telephone: (613) 523-3489
Manager: P. Unwin
PCEC

M-12 Metzler Business School
214 Concession Street
Kingston K7L 2B5
Telephone: (613) 546-1254
Manager: P. Owen

M-13 Mirage Models Inc.
83 Clarence Street
Suite 3
Ottawa K1N 5P5
Telephone: (613) 594-3211
Manager: M. Mechakra

M-14 Moda Image & Model Centre
2411 Yonge St.
#202
Toronto M4Y 2E7
Telephone: (416) 482-6744
Manager: P. Noble

M-15 Mountain School of Welding
1495 Upper James Street
Hamilton L9B 1K2
Telephone: (416) 383-7827
Manager: T. Martino

N-1 National College
170 St. George Street
Suite 607
Toronto M5R 2M8
Telephones: (416) 925-9155/925-9238
Manager: G. McGowan
PCEC

N-2 National Institute of Broadcasting
1497 Yonge Street
Suite "C"
Toronto M4T 1Z2
Telephone: (416) 922-2793
Manager: J.C. Dickins
PCEC

N-3 New School of Complete Success Models
6249 St. John Street
Niagara Falls L2J 1C6
Telephone: (416) 357-1915
Manager: C. Chapman

N-4 New Skills Vocational School
2084 Danforth Avenue
Toronto M4C 1J9
Telephone: (416) 421-0372
Manager: M. Christoff
PCEC

1145 Albion Road
Rexdale M9V 4J7
Telephone: (416) 421-0372
Manager: M. Christoff

420 The East Mall
Etobicoke M9B 3Z9
Telephone: (416) 421-0372
Manager: M. Christoff

c/o Moira Secondary School
275 Farley Avenue
Belleville K8M 4M2
Telephone: (416) 421-0372
Manager: M. Christoff

c/o Fairview Home
799 Concession Street
Cambridge N3H 4L1
Telephone: (416) 421-0372
Manager: M. Christoff

O-1 Office of the Future Training School
Commerce Court North
25 King Street West
Suites 1325 and 1400
Toronto M5L 1E9
Telephone: (416) 862-8121
Manager: E. Bourassa

O-2 Olsten Word Processing
401-20 Hughson Street South
Hamilton L8N 2A1
Telephone: (416) 523-5383
Manager: J.E. Webb

O-3 Ontario Business College
Mail only:
P.O. Box 1180
Belleville K8N 5E8
Telephone: (613) 962-5308
Manager: A. Greer
PCEC

Training:
54 Victoria Avenue
Belleville
Telephone: (613) 962-0870
Dean: G. Moran
PCEC

284 Queen Street East
Brampton
Telephone: (416) 454-3123
Dean: J. Thomas-Murphy
PCEC

445 King Street West
Kitchener
Telephone: (519) 579-3160
Dean: T. Randall
PCEC

Richmond Centre
54A Centre Street North
Oshawa
Telephone: (416) 576-9175
Dean: L. Clarke
PCEC

256 King Edward Avenue
Ottawa
Telephone: (613) 236-0443
Dean: S. Fanjoy
PCEC

Collège Commercial Bilingue Larocque et Lafortune
447 Sussex Drive
Ottawa
Telephone: (613) 236-0443
Dean: C. Lepine
PCEC

30 Elgin Street North
Sudbury
Telephone: (705) 673-8213
Dean: P. Horgan
PCEC

1119 Victoria Avenue East
Thunder Bay
Telephone: (807) 622-7061
Dean: L. Townson
PCEC

2462 Howard Avenue
Windsor
Telephone: (519) 254-4777
Dean: E. Donnelly
PCEC

O-4 Ontario Institute of Audio Recording Technology
500 Newbold Street
London N6E 1K6
Telephone: (519) 686-5010
Manager: P. Steenhuis

O-5 Osilla Institute for Health Personnel
428A Parliament Street
Toronto M5A 3A2
Telephone: (416) 960-1810
Manager: V.O. Tansingco
PCEC

131 John Street South
Hamilton L8N 2C3
Telephone: (416) 529-4507
Manager: V.O. Tansingco
PCEC

O-6 Ottawa School of Electrolysis
1226A Wellington Street
Ottawa K1Y 3A1
Telephone: (613) 722-0860
Manager: J. Coleman
PCEC

P-1 P.T.L. Truck Driving School
5353 Maplewood Drive
P.O. Box 71
Windsor N9C 3Z1
Telephone: (519) 969-9696
Manager: H. Plante

P-2 Park Business College
145 King Street East
Hamilton L8N 1B1
Telephone: (416) 522-5500/528-1108
Manager: J. Bodner
PCEC

P-3 Pathfinder Business College
1 Elmhurst Avenue
Willowdale M2N 1R3
Telephone: (416) 225-3737
Manager: J. di Santo
PCEC

P-4 Pebec School of Esthetics and Beauty Therapy
121 Oxford Street East (at Talbot)
London N6A 3H2
Telephone: (519) 432-7162
Manager: L. Buijs
PCEC

P-5 Practical Business Institute (The)
3038A Bloor Street West
Toronto M8X 1C4
Telephone: (416) 239-9919
Manager: M.G. Noia

P-6 Professional Driver Training School
5 Empress Avenue
Hamilton L9A 1M1
Telephone: (416) 575-1755
Manager: D.A. Warner

R-1 RCC School of Electronics Technology
243 College Street
Toronto M5T 2Y1
Telephone: (416) 598-4004
Manager: H.J. Nichol
PCEC

R-2 Radio Electronic Television School
2057 Danforth Avenue
Toronto M4C 1J8
Telephone: (416) 698-5287
Manager: J.D. Hatch
PCEC

R-3 Rapid Results School
2220 Midland Avenue
Unit 75
Scarborough M1P 3E6
Telephone: (416) 299-7499
Manager: R. Imrie

R-4 Recording Arts Program of Canada
28 Valerose Drive
Stoney Creek L8E 3T4
Telephone: (416) 662-2666
Manager: N. Keca

R-5 Retter Business College Inc.
120 Eglinton Avenue East
Suite 215
Toronto M4P 1E2
Telephone: (416) 481-7111
Managers: S.F. Isley/S. Retter
PCEC

R-6 Rita Mansfield Agency Modelling and Finishing School
115 Percy Street
Ottawa K1R 6C6
Telephone: (613) 238-2641
Manager: R. Mansfield

R-7 Rodgers School of Truck Driver Training Ltd.
Jane Park Plaza
881A Jane Street
Suite 201
Toronto M6N 4C4
Telephone: (416) 769-3546
Manager: G. Brunette
PCEC

S-1 St. Catharines Business College
101 King Street
P.O. Box 1473
St. Catharines L2R 7J9
Telephone: (416) 685-9421
Manager: M. Yurgen-Persh
PCEC

S-2 School of Canine Science (The)
R.R. #2
Shelburne L0N 1S0
Telephone: (514) 931-4466
Manager: S. Gardiner

S-3 School of Face, Hands & Feet
239 Broadway
Orangeville L9W 1K3
Telephone: (519) 941-1310
Manager: D. Murray

S-4 School of Makeup Art Ltd. (The)
72 Carlton Street
Toronto M5B 1L6
Telephone: (416) 961-1300
Manager: Y. Bussin
PCEC

S-5 Shaw Central College
2436 Yonge Street
Toronto M4P 2H4
Telephone: (416) 481-6477
Manager: F.T. Miosi
PCEC

S-6 Shaw Home Study College
2436 Yonge Street
Toronto M4P 2H4
Telephone: (416) 481-6477
Manager: G. Bobr
PCEC

S-7 Shiatsu School of Canada Inc.
547A College Street
Toronto M6G 1A9
Telephone: (416) 323-1818
Manager: Kaz Kamiya

S-8 Silhouette Productions
288 Ontario Street
Stratford N5A 3H5
Telephone: (416) 271-8334
Manager: T. Woods

S-9 Southwestern Business College Inc.
111 Waterloo Street
London N6B 2M4
Telephone: (416) 432-1020
Manager: P. Wilde
PCEC

S-10 Southwestern Ontario School of Auctioneering
Mail only:
P.O. Box 145
Innerkip N0J 1M0

Training:
R.R. #1
Woodstock
Telephone: (519) 469-3936/537-2115
Manager: J. Pallister

S-11 Star Quality Modelling
1250 South Service Road
Suite 306 (Dixie Mall)
Mississauga L5E 1V3
Telephone: (416) 271-3127
Manager: M. Wilson

S-12 Stevens Finishing School of Hamilton
First Place
350 King Street East
Suite 207
Hamilton L8N 1C2
Telephone: (416) 528-5901
Manager: R. Fisher

S-13 Success Business College
188 Eglinton Avenue East
Suite 301
Toronto M4P 2X7
Telephone: (416) 487-6493
Manager: G. Seidenfeld
PCEC

S-14 Susanna Chowles College of Aesthetics and Beauty Therapy
300 Lakeshore Road East
Unit 8
Oakville L6J 1J1
Telephone: (416) 845-5441
Manager: S. Chowles
PCEC

S-15 Sutherland-Chan School and Teaching Clinic
732 Spadina Avenue
Toronto M5S 2J2
Telephone: (416) 924-1107
Manager: R. Birenbaum

S-16 Sutherland's Modelling and Career Centre
2464 Yonge Street
Toronto M4P 2H5
Telephone: (416) 488-0900
Manager: A. Sutherland

S-17 Syms Business Institute
Fairview Business Park
2289 Fairview Street
Unit 106
Burlington L7R 2E3
Telephone: (416) 639-4473
Manager: V. Sims

T-1 Techni-Data Institute of Canada
120 Watline Avenue
Unit 4
Mississauga L4Z 2C1
Telephone: (416) 890-0400
Manager: S. Gallant
PCEC

T-2 Thompson-Davis Careers Institute
343 Richmond Street
Suite 201
London N6A 3C2
Telephone: (519) 439-7810
Manager: G.A. Davis
PCEC

T-3 Toronto Bartenders Training School
617A Bloor Street West
Toronto M6G 1K8
Telephone: (416) 531-3027
Manager: C. Obacz

T-4 Toronto Recording Workshop
374 Bering Avenue
Toronto M8Z 3A9
Telephone: (416) 237-0101
Manager: T. O'Field
PCEC

T-5 Toronto School of Business
165 Dundas Street West
Mississauga L5B 2N6
Telephone: (416) 273-7706
Manager: T. Spilman
PCEC

2432 Eglinton Avenue East
Suite 6
Scarborough M1K 2P8
Telephone: (416) 288-5333
Manager: H. Mendelssohn
PCEC

771 Yonge Street
Toronto M4W 2G4
Telephone: (416) 977-9991
Manager: R. Taube
PCEC

5631 Yonge Street
Willowdale M2M 3S9
Telephone: (416) 221-4386
Manager: M. Pacheco
PCEC

25 Hughson Street South
Hamilton L8N 2A5
Telephone: (416) 521-2112
Manager: G. Burchell
PCEC

2323 Bloor Street West
Etobicoke M6S 1P2
Telephone: (416) 766-6015
Manager: D. Marchese
PCEC

12 Simcoe Street North
Oshawa L1G 4R7
Telephone: (416) 723-1163
Manager: E. Goetz
PCEC

T-6 Toronto School of Floral Design
2628 Yonge Street
Suite 2
Toronto M4P 2J4
Telephone: (416) 231-1164
Manager: M.L. Kruchak

T-7 Travel Training Career Centre Ltd.
2160 Yonge Street
Toronto M4S 2A8
Telephone: (416) 481-2265
Manager: L. Blazik
PCEC

T-8 Tri-County Vocational Driver Training
300 Colborne Street East
Brantford N3S 3M9
Telephone: (519) 756-0223
Manager: G. Edler
PCEC

720 King Street East
Kitchener N2G 2M5
Telephone: (519) 743-5011
Manager: J. Wynia
PCEC

U-1 Universal Mannequenn Fashion
School and Model Agency
343 Richmond Street
Suite 102, P.O. Box 9069, Sub 40
London N6E 1V0
Telephone: (519) 673-1234
Manager: W. Valstar

U-2 Universal Travel School
2 Carlton Street
Suite 1711
Toronto M5B 1J3
Telephone: (416) 598-3117
Manager: S. Kaufman

V-1 Verna Williams Modelling and Charm
School
2011 James Street
Burlington L7R 1H1
Telephone: (416) 632-1065
Manager: V. Williams

V-2 Versailles Academy of Make-up Arts
and Sciences
35 O'Connor Street
Suite 203
Ottawa K1P 5M4
Telephone: (613) 235-1825
Manager: D. MacIntosh
PCEC

V-3 Visage School of Cosmetic Artistry
801 Eglinton Avenue West
Toronto M5N 1E3
Telephone: (416) 789-7191
Manager: S. Darke

645 Lansdowne Avenue
Lansdowne Place, Store #75
Peterborough K9J 7Y5
Telephone: (705) 745-3877
Manager: C. Baker

V-4 Vogue Models
237 Locke Street South
Suite 301-302
Hamilton L8P 4T4
Telephone: (416) 523-5077
Manager: S. Wannop

W-1 Warner Business College
89 Wyndham Street North
Unit 303
Guelph N1H 4E9
Telephone: (519) 824-7461
Manager: D. Warner
PCEC

W-2 Western Ontario Business Institute
205 York Street
Suite 301
London N6A 1B0
Telephone: (519) 434-2745
Manager: A. Bonello
PCEC

W-3 Westervelt Business School Ltd.
190 Wortley Road
London N6C 4Y7
Telephone: (519) 679-0780
Manager: T. Thomas
PCEC

W-4 Willis Business College Ltd.
85 O'Connor Street
Ottawa K1P 5M6
Telephone: (613) 236-5939
Manager: L. Kenny
PCEC

Z-1 Zehava School of Esthetics and
Cosmetology
4544 Dufferin Street
Suite 205
Downsview M3H 5X2
Telephone: (416) 665-8030
Manager: Z. Saarony
PCEC

# Study Opportunities for Senior Citizens

**•General Information**

**Universities**
Both regular and part-time university study are open to senior citizens, and nearly all universities offer free tuition. There are no admission requirements specific to senior citizens except proof of age. Several universities admit, as senior citizens, students who are at least 60 years of age, but most require proof that the student is 65 years of age or over. The student must be a Canadian citizen or permanent resident.

Senior citizens are normally admitted as mature students. Those who wish to enter a program of study leading to a degree must demonstrate the academic ability required to satisfactorily complete university level courses. Most universities set a one-year period of probation for assessment of this academic ability. General aptitude tests may also be required.

The majority of senior citizens enrolled in Ontario universities are taking part-time studies for personal interest.

Since tuition is waived for senior citizens, entry to courses that have restricted enrolments may be denied in some instances. Such courses are generally career-oriented and are usually of little interest to senior citizens. In all other respects, senior citizens enjoy the same privileges and are governed by the same regulations as regular students.

*Special Programs*
Ryerson provides seniors with personalized assistance in selecting courses and in registration.

Through its unique participation program, the Volunteer Committee of the President's Advisory Committee on Senior Involvement at Ryerson, Ryerson offers seniors a wide range of opportunities for involvement in the Ryerson community. Seniors assist in the library, help foreign students meet Canadians, act as advisers to students on special research projects or as guest examiners for design projects, serve as tutors, trace "lost" alumni, and serve on numerous committees.

Day evening study
Brock University offers a variety of programs aimed at senior citizens. Tuition fees in university credit courses are waived for those adults over the age of 60. For details, please contact the Part-Time Programs Office at the university.

Carleton University offers free tuition to persons 60 years of age and older who are registered for credit courses. Reduced fees are offered in non-credit courses. Counselling is available through Carleton's School of Continuing Education.

At Lakehead University, tuition fees for credit courses are waived for individuals 60 years of age and older by September 30 of the academic year. Enrolment may be restricted in limited-enrolment courses. Students are responsible for the costs of books, supplies, and incidental fees.

Laurentian University offers, for a nominal fee, some non-credit courses specifically designed for the over-50s and free tuition in credit courses for seniors over 60 years of age.

At McMaster University, senior citizens may take credit and non-credit courses free of tuition, subject to meeting academic requirements.

Queen's University offers free tuition for credit courses to persons 65 years or older who meet regular admission requirements. During the summer, week-long Elderhostel programs are offered. Participants in the programs live in residence on campus, take three non-credit courses, and enjoy a varied activity and entertainment schedule. The co-ordinator for Elderhostel at Queen's is Doug Thompson, who can be reached at (613) 545-2473.

Ryerson offers seniors a variety of study options in both day and evening courses. Spaces have been reserved especially for senior students in several daytime credit courses. Seniors may also apply for admission to any other day course as "special students". Admission is subject to space being available and regular admission procedures. Some courses may require a prerequisite or the approval of the instructor. Daytime credit courses are tuition-free to all persons 60 years of age and over. Most evening courses are also tuition-free. Fall classes commence in early September, and winter classes begin in early January. Certain courses may involve costs other than tuition fees, and for these supplies or services, fees may be levied. Of necessity, the number of non-paying senior citizens registered in a course may have to be limited. For further information on registration procedures, course details, or senior involvement at Ryerson, please contact Pam Hitchcock, Co-ordinator, Seniors' Studies, Continuing Education Division, Ryerson Polytechnical Institute, 350 Victoria Street, Toronto, Ontario M5B 2K3, telephone (416) 979-5183, ext. 6686.

The University of Toronto offers free tuition in degree credit courses for seniors 65 and over through its college for part-time studies, Woodsworth College. These courses start in September, January, and May, days or evenings, and prospective students should make an appointment in advance to discuss their course selection with the Co-ordinator of the Senior Citizen's Program. Seniors attend regular classes with students of all ages and may eventually earn a University of Toronto degree by successfully completing at least fifteen courses. Some seniors are content with earning the Certificate of Merit from Woodsworth College for the successful completion of at least six courses. For further information or registration procedures, course details, and other opportunities for senior involvement at the University of Toronto, please contact Dr. David Nimmo, Director, Student Services and Co-ordinator, Senior Citizens' Program, Woodsworth College, University of Toronto, 119 St. George Street, Toronto, Ontario, M5S 1A9. Telephone (416) 978-2411.

Trent University offers counselling for senior citizens through its Julian Blackburn centre for Continuing Education and offers free tuition in credit courses for seniors over 60 years of age.

At the University of Waterloo, bursaries equivalent to tuition are awarded to all individuals 60 years of age or over. A number of credit courses and public lecture series are offered by the university at various off-campus locations, and senior citizens are invited to attend. The University of Waterloo Mature Student Services Co-ordinator offers programs and services for all mature students, including seniors.

At the University of Western Ontario, bursaries equivalent to tuition are available in an undergraduate faculty or in the Faculty of Graduate Studies. As well, Western's Mature Student Adviser helps organize special programs and social events for senior citizens.

The University of Windsor offers free tuition for Canadian citizens 60 years of age or older. Counselling is offered through the Office of Part-Time Studies.

York University offers free tuition in degree credit courses to persons 60 years of age or older. Tuition waiver forms may be obtained from and submitted to the Financial Aid Office, and must be accompanied by acceptable documentation in support of age, citizenship, and residence.

**Colleges of Applied Arts and Technology**
Most of Ontario's colleges of applied arts and technology offer postsecondary credit courses through their Departments of Continuing Education or Extension to senior citizens for a nominal fee of $5 or $10 per course. There are no specific admission requirements, and senior citizens are normally admitted under the mature students category. They are generally expected to meet normal academic standards and to be responsible for any incidental course fees that may be incurred for materials, books, labs, etc.

Reduced fees for both full- and part-time studies by senior citizens are offered by Algonquin, Cambrian, Canadore, Conestoga, Fanshawe, George Brown, Humber, Northern, St. Lawrence/Saint-Laurent, Sheridan, and Sir Sandford Fleming colleges. Centennial, Confederation, Durham, Mohawk, Niagara, and St. Clair colleges offer reduced fees for senior citizens for part-time studies only. The remainder of the colleges do not waive normal fees for senior citizens who wish to study as full-time students. Colleges may differ somewhat in their admission regulations; prospective students are advised to check with the institution they want to attend.

*Special Programs*
Cambrian College hosts an Elderhostel Educational week in mid-August. Participants over 60 years of age stay in the college's residences, tour the City of Sudbury, and take three courses. The program also includes a commuter package for in-town residents who wish to participate in Elderhostel.

Confederation College hosts Elderhostel activities during the summer months. Residence facilities are available on campus.

Georgian College hosts Elderhostel in a combination of French and English at the end of July. Participants take three courses at the college's Kempenfelt Conference Centre on the shores of Lake Simcoe.

Humber College offers an extensive variety of specialized courses for senior citizens through its Third Age College. Courses dealing with retirement planning and the problems of retirement are available at Canadore, Centennial, Durham College Conference Centre, Loyalist, and Mohawk. Cambrian, Canadore, Sault, Seneca, and Sheridan colleges offer courses of interest to senior citizens at off-campus locations. Lambton College offers the Actively Retired Citizens Program (ARC).

Niagara College offers Elderhostel, learning/hostelling experience, each year in the city of Niagara Falls.

Northern College has, since 1981, hosted Elderhostel at its Kirkland Lake Campus. People over 60 years of age participate in a college educational experience for a week, which includes three short courses and a stay in a student residence. In Timmins, Northern College co-ordinates part-time courses in senior citizens' group homes three times a year.

The Sheridan College Seniors' Life Centre provides courses, workshops, and conferences for older adults. Elderhostel is hosted at Sheridan College's Credit Valley campus. Programs are open to anyone 60 years of age or older, or the spouse or companion of someone of that age, regardless of educational background. Enrolment is limited to 40 participants.

**• Further Information**

The following may be contacted for further information on programs and facilities for senior citizens.

**Universities**

Assistant Registrar, Admissions
*Brock University*
St. Catharines, Ontario L2S 3A1
Telephone (416) 688-5550

School of Continuing Education
*Carleton University*
Rm. 302, Administration Building
Ottawa, Ontario K1S 5B6
Telephone (613) 564-6660

School of Part-Time Studies and Continuing Education
*University of Guelph*
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120

Director of Continuing Education
*Lakehead University*
Thunder Bay, Ontario P7B 5E1
Telephone (807) 345-2121 ext. 210

Director, Centre for Continuing Education and Part-Time Studies
*Laurentian University*
Sudbury, Ontario P3E 2C6
Telephone (705) 675-1151 ext. 3930

Office of the Registrar
*Nipissing University College*
P.O. Box 5002
Gormanville Road
North Bay, Ontario P1B 8L7
Telephone (705) 474-3450 ext. 2293

Associate Registrar (Admissions)
*McMaster University*
Hamilton, Ontario L8S 4L8
Telephone (416) 525-9140 ext. 4796

Director of Admissions
*University of Ottawa*
Ottawa, Ontario K1N 6N5
Telephone (613) 564-3288

Admissions Officer
Part-Time Studies
*Queen's University*
Kingston, Ontario K7L 3N6
Telephone (613) 547-2870

Information Centre
*Ryerson Polytechnical Institute*
350 Victoria St.
Toronto, Ontario M5B 2K3
Telephone (416) 979-5036

Co-ordinator of Senior Citizens Program
Woodsworth College
*University of Toronto*
Toronto, Ontario M5S 1A9
Telephone (416) 978-2411

Director of Admissions
*Trent University*
Peterborough, Ontario K9J 7B8
Telephone (705) 748-1215

Office of Part-Time Studies, Correspondence Courses and Continuing Education
*University of Waterloo*
Waterloo, Ontario N2L 3G1
Telephone (519) 888-4002

Faculty of Part-Time and Continuing Education
*University of Western Ontario*
London, Ontario N6A 5B8
Telephone (519) 679-3632

Director of Continuing Education
*Wilfrid Laurier University*
Waterloo, Ontario N2L 3C5
Telephone (519) 884-1970 ext. 2447

Director of Part-Time Studies
*University of Windsor*
Windsor, Ontario N9B 3P4
Telephone (519) 253-4232 ext. 3305

Director of Admissions
*York University*
4700 Keele St.
Downsview, Ontario M3J 1P3
Telephone (416) 667-2211

**Colleges of Applied Arts and Technology**

Dean, Continuing Education
*Algonquin College*
1385 Woodroffe Ave.
Nepean, Ontario K2G 1V8
Telephone (613) 727-7664

Office of the Registrar
*Cambrian College*
1400 Barrydowne Rd., Station "A"
Sudbury, Ontario P3A 3V8
Telephone (705) 566-8101

Chairman, Part-Time Studies
*Canadore College*
P.O. Box 5001
North Bay, Ontario P1B 8K9
Telephone (705) 474-7600 ext. 388

Chairman, Part-Time Studies
*Centennial College*
P.O. Box 631, Station A
Scarborough, Ontario M1K 5E9
Telephone (416) 694-3345 ext. 379

Director, Continuing Education
*Conestoga College*
299 Doon Valley Dr.
Kitchener, Ontario N2G 4M4
Telephone (519) 653-2511 ext. 404

Dean of Continuing Education
*Confederation College*
P.O. Box 398
Thunder Bay, Ontario P7C 4W1
Telephone (807) 475-6110
(toll free for Northwestern Ontario residents
1-800-465-6961)

Admissions Officer
*Durham College*
Simcoe St. N.
Oshawa, Ontario L1H 7L7
Telephone (416) 576-0210 ext. 262

Registrar
*Fanshawe College*
P.O. Box 4005
London, Ontario N5W 5H1
Telephone (519) 452-4277

Registrar
*George Brown College*
P.O. Box 1015, Station "B"
Toronto, Ontario M5T 2T9
Telephone (416) 967-1212 ext. 2321

Chairman, School of Continuous Learning
*Georgian College*
One Georgian Dr.
Barrie, Ontario L4M 3X9
Telephone (705) 728-1951 ext. 542

Director, Admissions
*Humber College*
P.O. Box 1900
Rexdale, Ontario M9W 5L7
Telephone (416) 675-3111 ext. 4219

Registrar and Director of Student Services
*Lambton College*
P.O. Box 969
Sarnia, Ontario N7T 7K4
Telephone (519) 542-7751 ext. 295

Dean of Continuing Education
*Loyalist College*
P.O. Box 4200
Belleville, Ontario K8N 5B9
Telephone (613) 962-9501 ext. 278

Dean of Part-Time Studies
*Mohawk College*
P.O. Box 2034
Hamilton, Ontario L8N 3T2
Telephone (416) 575-2219

Director of Continuing Education Services
*Niagara College*
Woodlawn Rd., P.O. Box 1005
Welland, Ontario L3B 5S2
Telephone (416) 735-2211 ext. 514
orthern College
Highway 101, P.O. Box 2002
South Porcupine, Ontario P0N 1H0
Telephone (705) 235-3211 ext. 233

Elderhostel Coordinator
*Northern College*
Kirkland Lake Campus
140 Government Road East
Kirkland Lake, Ontario P2N 3L8
Telephone (705) 567-9291

Dean, Continuing Education
*St. Clair College*
2000 Talbot Rd. W.
Windsor, Ontario N9A 6S4
Telephone (519) 966-1656 ext. 575

Registrar
*St. Lawrence College Saint-Laurent*
2288 Parkedale Ave.
Brockville, Ontario K6V 5X3
Telephone (613) 345-0660

Admissions and Academic Records Office
*Sault College, Registrar*
P.O. Box 60
Sault Ste. Marie, Ontario P6A 5L3
Telephone (705) 949-2050 ext. 359

Registrar
*Seneca College*
1750 Finch Ave. E.
North York, Ontario M2J 2X5
Telephone (416) 491-5050

Seniors' Life Centre
*Sheridan College*
1430 Trafalgar Rd.
Oakville, Ontario L6H 2L1
Telephone (416) 845-9430 ext. 374

Admissions Office
*Sir Sandford Fleming College*
526 McDonnel St.
Peterborough, Ontario K9J 7B1
Telephone (705) 743-5620

Registrar
*Ontario College of Art*
100 McCaul St.
Toronto, Ontario M5T 1W1
Telephone (416) 977-5311

# Selected Reference Publications

Some of these publications are available in secondary school guidance offices, public libraries, and at college and university admissions offices and libraries.

**Careers**

*Career Information: A Bibliography of Publications about Careers in Canada* $23.25*
A comprehensive list of Canadian career materials on a wide range of occupations. For information on availability and prices, contact
Guidance Centre
Faculty of Education
University of Toronto
10 Alcorn Ave.
Toronto, Ontario M4V 2Z8
Telephone (416) 978-3206

*Career Selector* Free
Data on over 150 careers – nature of work, training, qualifications, remuneration, etc.
Ontario Women's Directorate
4th Floor, Mowat Block
900 Bay Street
Toronto, Ontario M7A 1C2
Telephone (416) 965-7785

*Health Career Paths* $3.50*
A booklet listing the entrance requirements, length, and location of programs leading to health careers in Ontario.
Ontario Hospital Association
150 Ferrand Drive
Don Mills, Ontario M3C 1H6
Telephone (416) 429-2661 ext. 2333

*Jobs Canada* $2.00*
An information booklet on how to select, qualify for, and obtain the career that's right for you.
Bridging the Gap
The Toronto Board of Education
155 College St.
Toronto, Ontario M5T 1P6
Telephone (416) 591-8284

*Occupational Information Monographs*
$1.60* per leaflet, $105* for complete set.
Request free checklist of leaflets on some 200 careers.
Guidance Centre
Faculty of Education
University of Toronto
10 Alcorn Ave.
Toronto, Ontario M4V 2Z8
Telephone (416) 978-3206

*Student Guidance Information Service (SGIS)*
Provides information on over 1 000 occupations and their educational requirements, and on approximately 200 postsecondary institutions and their programs. This service is available to students in Grades 7 to 13 in all publicly supported schools in Ontario. See your guidance counsellor for assistance.

**Education**

*Accredited Institutions of Postsecondary Education, Programs, Candidates* $34.95*
Annual listing by the American Council on Education of accredited colleges and universities in the United States. Available in Canada from:
Collier Macmillan Canada Ltd.
539 Collier Macmillan Drive
Cambridge, Ontario N1R 5W9

*Commonwealth Universities Yearbook 1986* $165 (prepaid)*
A directory to the universities of the Commonwealth, published by the Association of Commonwealth Universities. Available in Canada from:
Association of Universities and
Colleges of Canada
Publications Department
151 Slater St.
Ottawa, Ontario K1P 5N1

*Directory of Canadian Universities 86/87* $12.50 (prepaid)*
Basic information on 71 universities and their affiliated colleges, a listing of research institutes, and a comprehensive table of university programs.
Association of Universities and
Colleges of Canada
Publications Department
151 Slater St.
Ottawa, Ontario K1P 5N1

*Higher Education in the United Kingdom 1984-86* $17.85*
A handbook for students and their advisers.
Oryx Press
2214 North Central Avenue
Pheonix, Arizona 85004 U.S.A.

*Peterson's Annual Guide to Undergraduate Study. Guide to Four-Year Colleges* $26.95* (U.S. prepaid)
Complete information on universities in Canada and the United States, including charts of programs, financial aid, and entrance requirements.
Book Order Department
Peterson's Guides
Box 2123
Princeton, New Jersey 08540 U.S.A.

*Regional Schools for Nursing Assistants* Free
A brochure describing the functions of the Registered Nursing Assistant as well as the admission requirements and selection procedure for students who wish to enter a nursing assistant program in a regional school for nursing assistants in Ontario.
Communication Services Branch
Ministry of Colleges and Universities
Mowat Block, Queen's Park
Toronto, Ontario M7A 1L2

*Spectrum 86 Series (4): Ontario* $7.50
Basic information on colleges, universities, and other education in Ontario. Editions also available for the Atlantic, Quebec, and Western regions at various prices.
Guidance Centre
Faculty of Education
University of Toronto
10 Alcorn Ave.
Toronto, Ontario M4V 2Z8
Telephone (416) 978-3206

*Tour d'horizon* Gratuit
Guide de l'éducation postsecondaire en Ontario à l'intention des Franco-Ontariens – conditions d'admission, droits de scolarité, cours dispensés, etc.
Ministère de l'Éducation
Section des renseignements
Édifice Mowat, 15e e'tage
Queen's Park
Toronto (Ont) M7A 1L2

*University Education at a Distance: Opportunities in Ontario*
*1986-87 Calendar of Distance Education Courses*
A copy may be obtained free of charge from the individual universities or by writing to:
Communications
130 St. George Street
Suite 8039
Toronto, Ontario M5S 2T4
Telephone (416) 979-2165

**Financial Aid**

The following information is available free from
Student Awards Branch
Ministry of Colleges and Universities
8th Floor, Mowat Block
Queen's Park
Toronto, Ontario M7A 2B4

*Financial Assistance for Students*
Folder outlining the grants, loans, bursaries, fellowships, and scholarships available to Ontario postsecondary students. Available in English and French.

*Ontario Graduate Scholarship Program*
A brochure explaining eligibility and application procedures for the Graduate Study Program. Bilingual.

*Ontario-Quebec Exchange Fellowship Program*
A brochure explaining eligibility and application procedures for graduate students wishing to continue their studies in their second official language. Bilingual.

*Ontario Special Bursary Program*
A bilingual application form outlining provincial assistance for part-time students who are receiving social assistance, are unemployed, or have a low family income.
o Student Loans: Some Facts You Should Know
This pamphlet discusses a student's responsibilities with regard to his or her Ontario Student Loan. Bilingual.

*Ontario Student Assistance Program (OSAP)*
A booklet outlining provincial and federal financial assistance available to Ontario postsecondary students. Available in English (OSAP) or French (RAFEO).

*OSAP: Some Common Questions*
A brochure providing answers to the most frequent questions about the Ontario Student Assistance Plan. Bilingual.

*Fellowship for Studying in French*
Application form for students interested in studying in their second official language for the first time at the postsecondary level. This program is funded by the Secretary of State.

*Sir John A. Macdonald Graduate Fellowship in Canadian History*
A brochure explaining eligibility and application procedures of this award, established to pay tribute to Canada's first prime minister by stimulating study in Canadian history. Bilingual.

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*Prices subject to change

The bilingual booklets listed below are available, without charge, from
dent Loans Program
Canada Student Loans Program
P.O. Box 2090, Station "D"
Ottawa, Ontario K1P 6C6
Telephone toll free 1-800-567-9602

*Canada Student Loans Program for Full-Time Students*
*Canada Student Loans Program Part-Time Loans Program*
*Repaying Your Canada Student Loan*

Bulk copies of *Horizons* have been distributed to each secondary school board in Ontario. The number of copies sent is equal to 80 per cent of the 1986-87 Grade 12 enrolment and 100 per cent of the Grade 13 enrolment for every school within each school board.

The school boards distribute *Horizons* to the individual schools within their board based on that enrolment. The number of copies provided is usually sufficient, but if additional copies are required the schools must contact their boards directly.

School boards should make requests for additional copies of *Horizons* in writing, indicating the reason for the request and the manner of distributing the extra copies. In this way, the ministry can monitor the distribution. The number of copies printed the following year will be increased or decreased accordingly.

Please send your written requests to Mary Diamond, Managing Editor, *Horizons*, Ministry of Colleges and Universities, Communications Branch, 11th Floor, 790 Bay Street, Toronto, Ontario M5G 1N8. If you have any questions, please telephone Mary at (416) 963-3967.

As in previous years, single copies of *Horizons* may be obtained by writing to the Enquiries Unit, Ministry of Education, 15th Floor, Mowat Block, Queen's Park, Toronto, Ontario M7A 1L2 (telephone 416-965-6407). If you are calling from outside Metropolitan Toronto but within Ontario, you may call toll-free by dialing 1-800-268-7501. Calls from within area code 807 may be placed by dialing "0" (zero) and asking for Zenith 64140.